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This guide will explain the Personnel Qualification Standards (PQS) progr what it is, and how to use it.

I. WHAT IS PQS?

PQS is a part of your Command's overall training program. It provides th minimum requirements to qualify on a Watchstation/Workstation. It is a metho for qualifying officer and enlisted personnel in certain assigned duties. Th PQS will assist you in becoming a more productive member of the "combat-ready qualified Navy team."

II. WHAT MAKES UP THE PQS PROGRAM?

The PQS program consists of the Standard booklet and the Progress Chart.

A. The Standard booklet contains questions you must be able to answer a performance items you must be able to do in order to qualify for a particular Watchstation/Workstation. Standards are written by naval personnel after ask themselves, "What do I need to know to do the job properly?"

The Standard booklet is made up of the following parts:

1. TABLE OF CONTENTS
2. USER'S GUIDE
3. DEFINITIONS OF WORDS USED IN PQS
4. CONTRIBUTING FLEET PERSONNEL
5. ENLISTED SURFACE WARFARE SPECIALIST (ESWS) CROSS-REFERENCE
6. FUNDAMENTALS AND SYSTEMS SUMMARY
7. FUNDAMENTALS (100 SECTION)
8. SYSTEMS (200 SECTION)
9. QUALIFICATION SECTION
10. WATCHSTATIONS/WORKSTATIONS (300 SECTION)
11. FEEDBACK FORM

B. The Progress Chart is used to display all the Standards in progress that have been completed by your division or work center. Your division offi uses the progress chart to determine who is qualified to stand the watches or perform the tasks required by your division. You should check the progress chart periodically to make sure all of the Standards you have completed have been recorded.

III. PQS FORMAT

A. The numbers in PQS follow a definite pattern. The following breakdo of the numbering system is a handy key to PQS format:

Subject	1st Digit	2nd thru 4th Digit
Operations	2 = Ship Control and Navigation	100 section = Fundamental
	3 = CIC/Operations	200 section = Systems
	4 = Weapons	300 section = Watchstatio
	5 = Communications	

B. Each Fundamental, System and Watchstation/Workstation is assigned three-digit number.

Example: 203

203 - Indicates section 2 (System section) and that it is the 3rd System

In the Systems section of your Standard booklet, you may find a format such s the following example. For item .21 you must answer questions A, B, and C. or item .22 questions A and B are required. If there is no grid with X's, ll questions must be answered.

203.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What are the safety/protective devices?

		A	B	C
.21	Slide	X	X	X
.22	Barrel	X	X	

C. Qualification Group Numbering System

The Watchstation/Workstation section (300) is divided into qualification roups. Your book may be used for more than one final qualification such as Beacl aster Radiotelephone Operator. Each group is indicated on a Final Qualification ign-Off Page as follows:

Example: NAVEDTRA 43248A-Q1

43248 - Indicates NAVEDTRA number assigned to the PQS package
A - Indicates first revision
Q1 - Indicates the first qualification group

1. FUNDAMENTALS (100 Section) This section identifies basic knowledge eeded to do the job properly. Normally you would have acquired this knowledge uring the school phase of your training. If you have not been to school, the equirements are outlined and the references listed will aid you in a self-study rogram.

2. SYSTEMS (200 Section) In systems, the subject under discussion s broken down into functional sections that may be compared to the electrical ystem in your car. The components of the electrical system are scattered hroughout your car, but taken all together they form the "electrical system." he same is true of the equipment you are studying. The components may not all e located in one place, but they still form a system.

a. Final Qualification Sign-Off Page

Final record that is filed in your training jacket and recorded in your Service Record upon final qualification

b. Qualification Summary Page

Record of completion of other PQS qualifications, and Watchstations/Workstations within a qualification group

c. Watchstations/Workstations (Task Sign-Off Pages)

Record of completion of performed tasks for each Watchstation/Workstation and instruction watches required by each Watchstation in a qualification group

IV. HOW TO QUALIFY

A. Your division officer or work center supervisor will issue you a PQS booklet. Your supervisor will assign Watchstations/Workstations and set time limits (goals) for completing your qualification. Progress toward qualification will be monitored on the division/work center Progress Chart. The estimated completion time, shown at the beginning of each Watchstation/Workstation, is only a recommendation and may be modified by your command. It indicates how long it will take the average sailor under normal condition to complete each Watchstation/Workstation.

B. Open your Standard booklet to your assigned Watchstation/Workstatio At the beginning of the Watchstation/Workstation you will find a list of ite that must be completed before starting your tasks. Standards may include Watchstations/Workstations other than the one on which you are working. Concentrate on the prerequisites for the Watchstation/Workstation to which y have been assigned and do not delay your qualification by spending time on others.

C. Complete the Safety Precautions Fundamentals first, then the rest c the required Fundamentals and Systems. Your supervisor may require you to complete these in a certain order, if not, the choice is up to you. If you not know the answer to a question in the Standard booklet, look up the answe in one of the reference books listed. If you cannot find the answer in the reference books, ask your supervisor for help.

D. As you complete a Fundamental or System section, have the Qualificat Petty Officer sign your Fundamentals and Systems Summary page. When you hav completed all prerequisites, you are ready to start the performance items li for that Watchstation/Workstation. Report your completion of all requiremen of that Watchstation/Workstation to your supervisor.

personnel to complete specific Watchstations/Workstations in PQS. When you do this, always look through the Standard booklet to determine other items that should be completed before work is started on the required Watchstations/Workstations or related Fundamentals and Systems. If you are assigning more than one Watchstation/Workstation or section to be completed, it is your decisi to specify which one should be completed first. The supervisor is an extremely important part of the PQS program if it is to be successful. If you administer PQS with insight, you will find that PQS is a helpful tool that can fit into your overall training plan. You will be responsible for the accuracy, updating and tailoring of PQS to fit your command's needs, as well as for the initiation of appropriate feedback to the PQS Development Group (feedback forms are locate in the back of each Standard booklet). You should provide motivation to your personnel by assigning goals, showing interest, and following the trainees' progress. The supervisor is responsible for training and should be the one to update and maintain the progress chart. It is important that the supervisor be aware of who is and who is not progressing, as well as where counseling or individual instruction may be needed. A sample PQS progress chart can be found in the PQS Manager's Guide (NAVEDTRA 43100-1B). As a supervisor you must be totally familiar with the duties, responsibilities, and assignments of your Qualification Petty Officers. Your PQS program cannot survive without good planning and quality control.

B. The estimated completion time, shown at the beginning of each Watchstation/Workstation, is only a recommendation and may be modified by the command. It indicates how long it will take the average sailor under normal conditions to complete each Watchstation/Workstation.

VI. THE QUALIFICATION PETTY OFFICER

A. Selection as a Qualification Petty Officer means that you are one of the command's subject matter experts on those Fundamentals, Systems and Watchstations/Workstations assigned to you. PQS cannot be successful without you. Your job is to be totally knowledgeable in your assigned areas, to make yourself available to check off your trainees' achievements, and to ensure that a high-quality PQS program is maintained in your division.

B. Each Qualification Petty Officer should have a set of standard answers for the Watchstations/Workstations so that all trainees receive the same answer. If multiple signatures are required for a line item, it is preferable that one working day or one watch elapse between signatures. If the trainee does not know the correct answer, it is your responsibility to help find the answer in the reference material. This will speed up the process of qualification and will familiarize your trainees with the use of publications. Obviously, this requires that you know where all the answers can be found.

C. As the Qualification Petty Officer you will be the most likely individual to discover discrepancies in the Standard booklet. Any discrepancies noted should be brought to the attention of your supervisor so that appropriate tailoring and corrections can be made. It must be understood that the PQS booklet should be tailored to fit your command's needs. Such tailoring is to be accomplished only with approval of your Commanding Officer or a designated official.

AIRCREW EVOLUTION - A grouping of aircrew tasks that measure performance in the course of a flight

COMPONENTS - Major units that make up a system when properly connected

COMPONENT PART - A major part of a component

CONTROL SIGNAL - A signal used to control electronic or mechanical devices

EMERGENCY - An event or series of events in progress that will cause damag to equipment or personnel unless immediate corrective steps are taken

FUNDAMENTALS - Basic facts, theories, laws or principles (100 Section in P

INTERLOCK - A protective device to prevent the unsafe operation of equipme or to sequence the action of systems, components or component parts

MAINTENANCE ACTION - A maintenance technician qualification that measures ability to perform a designated task

MAINTENANCE OPERATION - A qualification that measures the ability to perfo tasks (using established procedures) to determine the need for maintenance

NORMAL OPERATING VALUE - The point at which satisfactory performance may be expected

PARAMETER - A variable (temperature, pressure, flow rate, voltage, current frequency etc.) that must be indicated, monitored, checked or sensed durin operation or testing

PROTECTIVE FEATURE - A device designed to prevent damage or injury

SENSING POINT - The point in a system at which a signal may be detected

SETPOINT - The value of a parameter at which: (a) an alarm is set off, (b) operator action is required, (c) valves open or shut, (d) proper operation stops and damage may occur, or (e) the optimum value for normal operation

SUPPORT ACTION - A qualification that measures the ability to perform spec or repetitive tasks that do not involve the correction of a malfunction or repair of equipment

SYSTEMS - Groups of components that operate together to perform specific functions (200 Section in PQS)

SYSTEM INTERFACE - (a) How outside influences affect the operation of this system, or (b) How the operation of this system affects the operation of other systems or equipment

TOLERANCES - Maximum and minimum allowable values of a parameter

CONTRIBUTING FLEET PERSONNEL

e following personnel, under the supervision of the PQS Development Group, de a significant contribution to the development of this PQS for Beachmaster it:

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BM2	Stephen L. EARLEY	BMU-1

NDAMENTALS

		SIGNATURE	DATE
1	Beach Party Team Organization		
2	Beach Traffic Control		
3	Beachmaster Salvage		
4	Bivouac and Defense Perimeter		
5	Classified Information Security		
6	Waterproofing and Weatherproofing		
7	Gasoline Engines		
8	Diesel Engines		
9	Basic Electricity		
0	Basic Hydraulics		
1	Basic Brakes		
2	Handtools		
3	First-Aid and Rescue		
4	Surf Observations (SUROBS)		
5	Electrical Safety Precautions		
6	General Safety Precautions		

STEMS

1	M-16 A1 Assault Rifle		
2	M-60 7.62mm Machinegun		
3	.45-Caliber Pistol		
4	M-37 Ithaca and 126A (Model 870) 12-Gauge Shotgun		
5	M-203 40mm Grenade Launcher		
6	Very Pistol		

SYSTEMS (CONT'D)

		SIGNATURE
207	782 Gear	
208	Tent	
209	Camp Equipment	
210	Radiation Personnel Dosimeter/ Reader	
211	Radiation Detection	
212	Chemical Detection/Defense Items	
213	Chemical Protective Clothing	
214	Portable Firefighting Equipment	
215	P-250 Pump	
216	Boat Repair Box	
217	Salvage Equipment	
218	Gasoline-Driven Generator	
219	Multipurpose Signal Light	
220	12-Inch Incandescent Searchlight	
221	Infrared Viewing Set (AN/SAR-7)	
222	Night Vision Sight, (MK 36) Model 1-4	
223	Radio Set (AN/URC-35)	
224	Radio Set (AN/VRC-46)	
225	Radio Sets (AN/PRC-25 and AN/PRC-77)	
226	Cryptographic Device (KY-38)	
227	Telephone Set (TA-312/PT)	
228	Telephone Switchboard (SB-22/PT)	
229	LARC-V Marine Equipment	

Cargo/Water Trailers ____________________

Utility Truck (1/4-Ton) (M151A1/M151A2) ____________________

Utility Truck (1-1/4-Ton) (M715) ____________________

6 X 6 Utility Truck (2-1/2-Ton) (M35A2) ____________________

LARC-V ____________________

D-8K Crawler Tractor ____________________

Test Equipment ____________________

Special Tools ____________________

Reference:

a. Beachmaster Manual

.1 Discuss each of the following beach party team's basic position in relation to their tasks during an amphibious operation:

a. Beach Party Team Commander (Beachmaster)
b. Assistant Beach Party Team Commander (Assistant Beachmaster)
c. Salvage Officer
d. Salvage Petty Officer (LPO)
e. Radioman
f. Signalman
g. Flank Petty Officer
h. Flagman
i. Messenger
j. Traffic Controlman
k. LARC-V Commander
l. LARC-V Crewman/Engineer
m. D-8K Salvage Bulldozer Operator
n. Safety Swimmer
o. Corpsman

.2 Discuss the following beach party team's support position in relation to their task:

a. Camp Support Petty Officer
b. Camp Security Watch
c. LARC-V Mechanic
d. Vehicle Mechanic
e. D-8K Salvage Bulldozer Mechanic
f. Nuclear, Biological, Chemical (NBC) Warfare Specialist
g. Team Gunner's Mate
h. Team Administrative Petty Officer
i. Team Damage Controlman
j. Team P-250 Maintenanceman

.3 Discuss the following beach party team's sections in relation to amphibious beach operations:

a. Salvage section
b. Traffic control section
c. Communications section
d. Causeway section (PHIBCB)
e. Bulk fuels section (PHIBCB)
f. Hydrographic section (UDT)

.4 Explain the chain of command of the beach party team.

ter Manual
Craft and Their Employment Manual

day and night hand signals for the following:

ng
n

p

following day and night signals:

cer Command Post
ing site
boat assistance required
mander land here/boat proceeding to beach land here
each
. boat beach here
g. Cease towing
h. Stop all operations

.3 Describe the day and night signals for the following unloading po

a. Ammunition
b. Rations
c. Water
d. Oil and fuel
e. Miscellaneous supplies
f. Casualty evacuation
g. Wheeled vehicles
h. LST beaching point
i. Tracked vehicles
j. Causeway beaching point

.4 Describe the day and night beach markers for colored beach (numbe beach).

.5 Explain who is responsible for the installation of beach markers.

.6 List the three means of communication available to the Beachmaste for coordination of boat control with the assisting offshore agen

.7 Explain who is responsible for the overall direction and coordina of boat traffic in the surf zone.

.8 Discuss the inland and international rules of the road and their application to:

a. Traffic control
b. Salvage operations
c. Civilian craft
d. Boat lanes

.9 Describe the buoys used to mark the following:

a. Channel
b. Beach lane
c. Intercoastal waterway
d. Obstruction

References:

a. Beachmaster Manual
b. Landing Craft and Their Employment Manual

.1 Define the salvage mission of the Beachmaster.

.2 Define the following terms:

a. Broached boat
b. Swamped boat
c. Disabled boat
d. Ramp failure
e. Capsized boat
f. Disabled vehicle

.3 Describe the primary means of seaward salvage, and explain how and when it is called upon to render assistance.

.4 Describe the means of shoreward salvage available to the Beachmaste

.5 Explain who decides what type of salvage is to be used and why.

.6 Define preventive salvage.

.7 Describe the primary means available to the Beachmaster for correct a disabled/broached boat.

.8 Describe the LARC's best angle of approach to a disabled/broached b

.9 List the attachment points on a broached boat that are compatible w the LARC's bow towline and explain.

.10 List the dewatering equipment available on the LARC for assisting a swamped landing craft.

.11 Explain the location of gear and the procedure for patching or repa a boat that has been holed and swamped.

.12 Describe what procedures you would employ to salvage a disabled lan craft from the beach due to:

a. Loss of power
b. Loss of rudder
c. Loss of screw

.13 Describe the equipment and methods used to correct ramp failures on the following:

a. LCVP
b. LCM-6
c. LCM-8

.14 Explain your primary concern as a Beachmaster regarding an overturned landing craft.

.15 Describe the method of removing trapped personnel from beneath an overturned landing craft if:

  a. Personnel are trapped in the bow
  b. Personnel are trapped in the stern

.16 Explain how to remove a disabled vehicle from the surf zone.

.17 Describe the equipment and method used for backloading a disabled vehicle aboard a landing craft.

.18 Discuss the hookup points of a LARC to be towed.

.19 Discuss the procedures you would use to tow a LARC:

  a. Over one mile
  b. Less than one mile

.20 Discuss the angle you would use to come through the surf in a LARC:

  a. From seaward
  b. From land

.21 Discuss the angle of approach used to come alongside another waterborne craft and/or pier.

.22 Discuss the procedures for entering well decks of an LSD, an LPD, or an LST:

  a. With tow
  b. Without tow

.23 Explain the methods of securing the LARC-V in well decks.

.24 Discuss the proper angle of approach used to come alongside the following:

  a. Broached boat
  b. Swamped boat
  c. Disabled boat
  d. Capsized boat
  e. Disabled vehicle
  f. Ramp failure

104 BIVOUAC AND DEFENSE PERIMETER FUNDAMENTALS

References:

a. Beachmaster Manual
b. Landing Party Manual
c. Seabee Combat Handbook (NAVEDTRA 10479)

.1 Explain how the following factors influence bivouac setup:

a. Terrain
b. Dispersal of equipment
c. Concealment
d. Protection
e. Sanitation
f. Weather

.2 Who assigns the beachmaster bivouac area?

.3 Define and explain the purpose of the following:

a. Camouflage
b. Revetment

.4 Describe the position of the command post when bivouacked on and explain why.

.5 Define defense perimeter.

.6 Define and explain why the following factors are considered establishing the defensive perimeter:

a. Observation
b. Fields of fire
c. Cover and concealment
d. Obstacles
e. Key terrain

.7 List the equipment available to a Beachmaster for digging entrenchments.

.8 Describe the construction of a one-man and two-man fighting

.9 Describe the proper method of cleaning a field of fire throug heavy vegetation.

.10 Describe the challenge and password system and list four prec to be followed when using them.

105 CLASSIFIED INFORMATION SECURITY FUNDAMENTALS 105

Reference:

a. Security Manual for Classified Information (OPNAVINST 5510.1)

.1 State who has the responsibility for classified information.

.2 Explain the security principle.

.3 Explain the following classifications:

a. Top secret
b. Secret
c. Confidential

.4 Explain the numerical evaluation system for stowage of classified material.

.5 Explain the classified material accounting system.

.6 State the custodial precautions.

.7 State the methods of destruction of classified material.

.8 State the witness requirements for destruction.

.9 Explain the records of destruction.

.10 State the methods of transmission within the United States boundari

.11 State the method of transmission outside the United States boundari

.12 State the packaging requirements for mailing classified material.

.13 State the receipt requirements.

.14 Define compromise.

.15 Explain the procedures for reporting a compromise.

.16 Discuss the responsibility for control.

.17 Define need to know.

106 WATERPROOFING AND WEATHERPROOFING FUNDAMENTALS

References:

a. Field Telephone Techniques (FM-24-18)
b. Electrician's Mate 3 & 2 (NAVEDTRA 10546)
c. LFTC Waterproofing/Weatherproofing Handout

.1 Explain the reasons for waterproofing/weatherproofing equipme

.2 Explain the reasons and procedures for initial checkout and t
of equipment prior to waterproofing/weatherproofing.

.3 Define the following:

a. Package waterproofing
b. Operation waterproofing

.4 Explain the functions of the following in maintaining waterti
integrity of equipment:

a. O-rings
b. Rubber boots or covers
c. Plastic shields
d. Rubber seals

.5 Explain the use of the following in waterproofing and weather
equipment:

a. RTV
b. WD-40
c. Silicon compound
d. Desiccants
e. Sealing compound (Duxseal)
f. Electrical insulating compound
g. Beeswax
h. Multipurpose waterproof covers
i. Moistureproof boxes
j. Asbestos grease
k. Waxed paper
l. Humidity indicator cards
m. Electrical insulating varnish
n. Waterproof tape
o. Plastic coating compound

.6 Explain the procedures for operational waterproofing/weatherp
equipment for possible submersion.

.7 Explain the reasons and procedures for selective dewaterproof
deweatherproofing equipment needed for extensive land operati

GASOLINE ENGINES FUNDAMENTALS

References:

a. Construction Mechanic 3 & 2 (NAVEDTRA 10644)
b. Engineman 3 & 2 (NAVEDTRA 10541)
c. Fireman (NAVEDTRA 10520)

.1 State the relationship between pressure, temperature, and volume during each of the following evolutions of a gasoline engine:

a. Intake
b. Compression
c. Power
d. Exhaust

.2 Describe the principles of carburetion in terms of:

a. Metering the fuel
b. Atomization of the fuel
c. Fuel and air mixture ratio

.3 Define the following terms:

a. Viscosity
b. Friction

.4 Explain the protective function of the following:

a. Temperature gauge
b. Oil pressure gauge
c. Governor (speed-limiting)

.5 Describe the basic types of valve arrangements in gasoline engines.

.6 Explain the following types of cooling system:

a. Air-cooled
b. Liquid-cooled

.7 Describe the differences between the two-cycle and the four-cycle gasoline engine.

.8 Explain the procedures for waterproofing equipment for shallow water submersion.

.9 Explain the procedures for preparing equipment for lengthy periods of operation and/or storage in humid climates or damp areas.

References:

a. Construction Mechanic 3 & 2 (NAVEDTRA 10644)
b. Engineman 3 & 2 (NAVEDTRA 10541)

.1 Explain the meaning of the following events:

a. Intake
b. Compression
c. Power
d. Exhaust

.2 Explain the application and use of the following:

a. Piston
b. Crankshaft
c. Valves
d. Cylinder
e. Fuel injector
f. Camshaft
g. Rocker arm assembly
h. Blower
i. Flywheel
j. Crossheads
k. Turbocharger

.3 Explain the protective functions of the following:

a. Temperature gauge
b. Speed-limiting governor
c. Overspeed governor
d. Emergency stop valve
e. Oil pressure gauge

.4 Define the following terms as used in diesel engine theory:

a. Stroke
b. Cycle
c. Compression
d. Combustion
e. Atomization
f. Turbulence
g. Viscosity
h. Friction

.5 Describe the two basic types of diesel engines.

References:

a. Introduction to Matter, Energy and Direct Current (Module 1) (NAVEDTRA 172-01-00-79)
b. Introduction to Alternating Current and Transformers (Module 2) (NAVEDTRA 172-02-00-79)
c. Introduction to Circuit Protection, Control, and Measurement (Module 3) (NAVEDTRA 172-03-00-79)
d. Introduction to Electrical Conductors, Wiring Techniques, and Schematic Reading (Module 4) (NAVEDTRA 172-04-00-79)
e. Introduction to Generators and Motors (Module 5) (NAVEDTRA 172-05-00-79)
f. Electrician's Mate 3 & 2 (NAVEDTRA 10546)
g. Construction Mechanic 3 & 2 (NAVEDTRA 10644)

List the abbreviations and/or symbols for the following:

a. Volt
b. Ampere
c. Watt
d. Resistor
e. Capacitor
f. Fuse
g. Switch
h. Lamp
i. Potentiometer
j. Rheostat
k. Battery
l. Inductor
m. Transformer
n. Semiconductor
o. Motors
p. Generator

Explain the application and use of the following:

a. AC motor
b. DC motor
c. Generator
d. Motor-generator
e. Alternator
f. Thermo switch (circuit-breaker)
g. Semiconductor
h. Transformer

Define the following terms:

a. Volt
b. Ampere
c. Resistor
d. Capacitor
e. Current limiter
f. Potentiometer
g. Rheostat
h. Specific gravity

Explain the following physical laws:

a. Coulomb's Law
b. Kirchoff's Law
c. Lenz's Law
d. Ohm's Law

Describe the methods and equipment used to test and calibrate mobile electric powerplants.

Describe the methods and equipment used in electrical troubleshooting.

110 BASIC HYDRAULICS FUNDAMENTALS

References:

a. Construction Mechanic 3 & 2 (NAVEDTRA 10644)
b. Engineman 3 & 2 (NAVEDTRA 10541)

.1 Describe the following types of drawings:

a. One-line block diagram
b. Flow schematic
c. Exploded view

.2 Explain the application and use of the following:

a. Reservoir
b. Filters
c. Check valves
d. Relief valves
e. Pump
f. Pressure gauge
g. Flow gauge
h. Accumulator
i. Ram and cylinders

.3 Define the following hydraulic terms:

a. Pressure
b. Flow rate
c. Viscosity
d. Friction

.4 Explain the transmission of force by liquids principle.

.5 Describe the general characteristics and properties of:

a. Hydraulic fluid
b. Rubber seals
c. Filtering materials

.6 Describe the basic types of the following:

a. Hydraulic pumps
b. Hydraulic valves
c. Hydraulic filters
d. Hydraulic tubing
e. Hydraulic actuating devices

BASIC BRAKES FUNDAMENTALS

111

References:

a. Construction Mechanic 3 & 2 (NAVEDTRA 10644)
b. Construction Mechanic 1 & C (NAVEDTRA 10645)

Describe the following types of drawings:

a. Pictorial
b. Cross-section
c. Flow schematic

Explain the application and use of the following:

a. Pedal and linkage
b. Master cylinder
c. Wheel cylinders
d. Brake shoes
e. Shoes adjusting mechanism
f. Drums
g. Disc
h. Rotor
i. Caliper
j. Proportional valve
k. Bleeder screws

Describe the basic fundamentals involved in fluid power.

Describe the use of the following principles:

a. Mechanical advantage
b. Friction

Describe the general characteristics of brake fluid.

Discuss the most vital features of the following:

a. Brake shoes
b. Brake drums
c. Discs
d. Calipers

Describe the basic types of brake adjusters.

Explain the following types of brake shoes/pads:

a. Riveted
b. Bonded

112 HANDTOOLS FUNDAMENTALS

Reference:

a. Basic Handtools (NAVEDTRA 10085)

.1 Explain the use and care of the following screwdrivers:

- a. Straight slot
- b. Phillips
- c. Reed and Prince
- d. Offset

.2 Explain the use and care of the following:

- a. Soldering irons
- b. Soldering guns
- c. Resistance soldering unit
- d. Pencil iron
- e. Pencil iron special tips
- f. Thermal shunts
- g. Soldering aid
- h. Solder sucker syringe
- i. Solder
- j. Fluxes

.3 Explain the use and care of the following pliers:

- a. Combination
- b. Round-nose
- c. Needle-nosed
- d. Duckbill
- e. Flat jaw
- f. Diagonal
- g. Lineman
- h. Waterpump
- i. Vice grips

.4 Explain the use and care of the following wrenches:

- a. Open-end
- b. Box-end
- c. Combination
- d. Allen
- e. Adjustable
- f. Socket set (ratchet, offset handle, extension, speed handle, universal joint, and sockets)
- g. Spanner
- h. Crow's-foot

.5 Explain the use and care of the following saws:

- a. Crosscut
- b. Rip
- c. Keyhole
- d. Coping saw
- e. Backsaw

12 HANDTOOLS FUNDAMENTALS (CONT'D)

.6 Explain the use and care of the following:

a. Relay tools (burnishing tool and point bender)
b. Taper pin insertion and removal tool
c. Wire strippers
d. Crimping tool
e. Safety wire pliers
f. Nut driver
g. Tuning tools
h. Files
i. Brace and bit
j. Grommet cutting punch
k. Grommet inserting punch and dies
l. Tap and die set

113 FIRST-AID AND RESCUE FUNDAMENTALS 113

References:

a. Standard First-Aid Training Course (NAVEDTRA 10081)
b. Hospitalman (NAVEDTRA 10664)
c. Basic Military Requirements (NAVEDTRA 10054)
d. Bluejackets' Manual

.1 Differentiate between first aid and medical care.

.2 Describe three purposes of first aid.

.3 List the conditions requiring immediate first aid.

.4 Describe three operating principles for the administration of first aid.

.5 Describe eight general guidelines for administering first aid.

.6 Describe the purpose of basic life support activities.

.7 Define respiratory failure.

.8 Describe conditions that cause respiratory failure.

.9 Describe major methods to correct conditions of respiratory failure.

.10 Describe three methods of artificial ventilation.

.11 Describe several complications of artificial ventilation.

.12 Describe how to perform cardiopulmonary resuscitation.

.13 Describe cardiac arrest and some conditions which cause cardiac arrest.

.14 Describe the following procedures:

a. Head and jaw tilt
b. Mouth-to-mouth ventilation
c. Mouth-to-nose ventilation

.15 Describe hemorrhage.

.16 Describe the three major blood vessels of the circulatory system.

.17 Describe the methods of controlling external hemorrhage.

.18 Describe and demonstrate direct pressure and use of some pressure points as a method of external hemorrhage control.

113 FIRST-AID AND RESCUE FUNDAMENTALS (CONT'D)

.21 Describe shock.

.22 List the common causes of shock.

.23 Describe the five common symptoms of shock.

.24 Describe the roles of position, activity, body temperature, fluids, and pain as they affect development and status of shock.

.25 Describe wounds.

.26 State the three basic rules in the treatment of wounds.

.27 Describe the principles involved in dressing the following wounds:

a. Chest
b. Abdominal
c. Head
d. Extremities

.28 Describe the following types of wounds:

a. Abrasions
b. Incisions
c. Lacerations
d. Punctures

.29 Describe the proper application of the following:

a. Dressings
b. Compresses
c. Bandages

.30 Describe the general treatment of fractures.

.31 Describe the general treatment of dislocations, sprains, strains, or contusions.

.32 Describe the application of splints.

.33 Describe the major classifications of fractures.

.34 Describe the general treatment procedures for fractures.

.35 Describe the occurrence, symptoms, and general treatment recommended for:

.36 Describe the four major kinds of heat contact/exposure injuries

.37 Describe burns.

.38 Describe the two methods of classifying burns.

.39 Differentiate between the depth of burns by name and characteri
signs and symptoms.

.40 Describe and list the cause, symptoms, and general treatment of
of the following heat exposure injuries:

a. Heat cramps
b. Heat exhaustion
c. Heat stroke

.41 List the physical and the physiological factors that influence
development of cold injuries.

.42 Describe general cooling and list characteristic symptoms and g
treatment.

.43 Describe characteristic symptoms and general treatment of the f

a. Chilblains
b. Immersion foot
c. Frostbite

.44 List the three major types of commonly misused drugs.

.45 Describe the symptoms of misuse of the following:

a. Stimulants
b. Depressants
c. Hallucinogens

.46 Describe the management of victims of drug misuse.

.47 Describe poisons.

.48 List the four major classifications of ingested poisons.

.49 Describe the action, symptoms, treatment, and incidence of the

a. Inhaled poison
b. Absorbed poison
c. Injected poison

.50 Describe the symptoms and treatment of the following types of s

a. Hematoxic

113 FIRST-AID AND RESCUE FUNDAMENTALS (CONT'D)

.51 Describe the incidence, nature, and treatment of sea animal bites.

.52 Describe the nature of human and animal bites, including general c wound.

.53 Describe the purpose of the Medic Alert symbol.

.54 Describe unconsciousness and the criteria used to determine the administration of first aid.

.55 Describe fainting and the general treatment of victims.

.56 Describe the signs, symptoms, and general treatment of the followi common medical emergencies:

a. Diabetic coma
b. Insulin shock
c. Stroke
d. Heart attack
e. Anaphylactic reaction
f. Asthma
g. Gastrointestinal allergy

.57 Distinguish between grand mal and petit mal seizures according to symptoms, and general treatment.

.58 Describe the general treatment of alcohol intoxication.

.59 Describe delirium and state the causes, signs, and treatment.

.60 Describe drowning, including the cause and first aid to be used.

.61 Describe electrical shock, including cause and first aid.

.62 State the purpose of using nuclear, biological, chemical (NBC) age in military.

.63 List the six major kinds of chemical agents used.

.64 Describe the general signs, symptoms, and intervention for the fol chemical agent exposure:

a. Nerve
b. Blister
c. Psycho
d. Blood
e. Choking

.65 Describe riot agents, and distinguish between vomiting and tear ag

.67 Describe biological agents, including their use, characteristics, transmission, protection, and treatment to be used.

.68 Describe nuclear agents, the types of injuries they cause, and the first-aid treatment.

.69 Describe the critical elements of rescue and transportation as the relate to first aid.

.70 Describe the four priorities of rescue operations.

.71 Describe the key information which will enhance rescue from situat involving:

a. Fire
b. Steam-filled spaces
c. Electrical contact
d. Unventilated compartments
e. Water

.72 Explain the proper method of transporting victims to medical help sing:

a. Stokes stretcher
b. Army litter
c. Improvised stretchers

.73 Describe the nine basic precautions which must be observed in transporting the injured.

References:

- a. Joint Surf Manual
- b. Surf Report Form

.1 Explain the function of the SUROBS.

.2 State how and where SUROBS are used.

.3 Describe the techniques used to find the following components of a SUROB:

- a. Significant breaker height
- b. Maximum breaker height
- c. Period
- d. Breaker types
- e. Angle of breaker with beach
- f. Littoral current
- g. Surf zone
- h. Wind/visibility/navigational hazards/secondary wave systems

115 ELECTRICAL SAFETY PRECAUTIONS FUNDAMENTALS 1

References:

a. Electrician's Mate 3 & 2 (NAVEDTRA 10546)
b. Electronics Installation and Maintenance Book (General) (NAVSEA SE000-00-EIM-100)

.1 Explain how electrical shock can be prevented when working on ar energized circuit.

.2 Explain the use of insulating material and how it is used to prc personnel.

.3 Explain the proper procedure to be followed prior to working on electrical machinery or equipment.

.4 Explain the use of a shorting bar.

.5 Explain the procedure to be followed when measuring high voltage

.6 Explain the purpose and use of danger tags.

.7 Describe the safety precautions applicable to portable electric equipment.

.8 Describe the dangers of open electrical circuits due to environ conditions.

.9 Explain the procedures to be followed when combating an electri

.10 State the agents to be used and explain their proper use when fi electrical fires.

.11 Explain the desirable characteristics of a good cleaning agent f electrical equipment.

.12 Explain the proper procedures to be used for removing a shock vi from an energized electrical circuit.

.13 Explain the hazards associated with working on an improperly grc energized piece of electrical or electronic equipment.

.14 Describe the steps to minimize these hazards.

.15 Explain the inherent hazards associated with portable electrical equipment.

.16 Explain the inherent hazards associated with lithium battery pow supplies.

References:

a. Construction Mechanic 3 & 2 (NAVEDTRA 10644)
b. Basic Military Requirements (NAVEDTRA 10054)
c. Gunner's Mate G 3 & 2 (NAVEDTRA 10185)
d. Seaman (NAVEDTRA 10120)
e. Local Command Safety Precautions

.1 Explain proper procedures to be followed when handling acid and electrolyte under the following conditions:

a. Shipping
b. Storing
c. Mixing

.2 Explain the proper clothing to be worn when handling acid and electrolyte

.3 Discuss proper procedures to be followed when handling the following flammable liquids:

a. Gasoline
b. Alcohol
c. Diesel fuel
d. White gas

.4 Discuss the hazards of removing the cap from a hot radiator.

.5 Discuss the danger of seawater getting into a battery.

.6 State the precautions taken when embarking and debarking vehicles from a landing craft.

.7 State the safety precautions taken when handling and stowing:

a. Ammunition
b. Pyrotechnics
c. Drill ammunition
d. Weapons

.8 Explain the danger of using the improper caliber ammunition in a weapon.

.9 Define a hot chamber and state the corrective action to be taken.

.10 Discuss the precautions that must be observed when cleaning weapons.

.11 Discuss the precautions necessary when using synthetic fiber lines.

.12 Explain the proper safety equipment to be worn when assigned to water-borne craft.

References:

a. TM 9-1005-249-14
b. Seabee Combat Handbook (NAVEDTRA 10479)

1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What are the modes of operation or control?
D. How is the function carried out?
E. What major materials are used and why?

		A	B	C	D	E
.21	Upper receiver group	X	X	X		
	a. Flash suppressor	X	X	X	X	
	b. Front sight	X	X	X	X	
	c. Hat shields	X	X	X	X	X
	d. Barrel	X	X	X	X	X
	e. Gas tube	X	X	X	X	
	f. Gas port	X	X	X	X	
	g. Chamber	X	X	X	X	
	h. Carrying handle	X	X	X	X	
	i. Rear sight	X	X	X	X	
	j. Forward assist	X	X	X	X	
	k. Ejection port	X	X	X	X	
	l. Dust cover	X	X	X	X	
	m. Bayonet stud	X	X	X	X	
.22	Bolt carrier group	X	X	X		
.23	Lower receiver group	X	X	X		
.24	Magazine assembly	X	X	X		
	a. Magazine housing	X	X	X	X	
	b. Spring	X	X	X	X	
	c. Follower	X	X	X	X	
.25	Bolt carrier group	X	X	X		
	a. Bolt carrier	X	X	X	X	
	b. Charging handle	X	X	X	X	
	c. Bolt	X	X	X	X	
	d. Ejector	X	X	X	X	
	e. Firing pin	X	X	X	X	X
	f. Bolt cam pin	X	X	X	X	
	g. Cotter pin	X	X	X	X	
	h. Bolt carrier key	X	X	X	X	

201.2 SYSTEM COMPONENTS AND COMPONENT PARTS (CONT'D)

	A	B	C	D	E
.26 Lower receiver group	X	X	X		
a. Pistol grip	X	X	X	X	X
b. Stock	X	X	X	X	X
c. Recoil spring	X	X	X	X	
d. Recoil spring guide	X	X	X	X	
e. Selector	X	X	X	X	
f. Magazine release	X	X	X	X	
g. Bolt retaining lever	X	X	X	X	
h. Trigger	X	X	X	X	
i. Hammer	X	X	X	X	

201.3 PRINCIPLES OF OPERATION

.31 What is the firing cycle for semiautomatic and automatic firing?

201.4 PARAMETERS

For the items listed answer the following questions:

A. What are the normal operating values and tolerances?

.41 Magazine capacity
.42 Maximum effective range
.43 Rate of fire

201.5 SYSTEM INTERFACE

.51 How do the following outside influences affect this system:

a. Obstruction in barrel (mud, dirt, water)
b. Weak magazine spring
c. Improper cleaning
d. Rounds jammed in chamber

.52 How does this system interface with the M-203 40mm Grenade Launch System?

201.6 SAFETY PRECAUTIONS - None to be discussed.

References:

a. Fleet Marine Forces 23-67
b. OP 3549
c. TM9-1005-224-10
d. Seabee Combat Handbook (NAVEDTRA 10479)

.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What is the source of power?
D. What are the modes of operation or control?
E. What are the major materials and why?

	A	B	C	D	E
.21 Receiver group	X	X		X	
a. Receiver assembly	X	X	X		
b. Feed plate assembly	X	X	X		
c. Hinge pin and spring	X	X	X		
d. Cover assembly	X	X	X		
e. Carrying handle	X	X	X		
f. Cocking lever	X	X	X		
g. Rear sight	X	X	X		
h. Handguard	X	X			
i. Cover spring	X	X	X		
.22 Barrel group	X	X		X	X
a. Barrel	X	X	X		
b. Flash suppressor	X	X	X		
c. Gas cylinder assembly	X	X	X		
d. Front sight	X	X	X		
e. Bipod assembly	X	X	X		
.23 Operating group	X	X	X	X	
a. Bolt assembly	X	X	X		
b. Operating rod	X	X	X		
c. Operating rod drive spring	X	X	X		
d. Operating drive spring guide	X	X	X		
.24 Trigger housing group	X	X		X	
a. Trigger mechanism assembly	X	X	X		
b. Leaf spring	X	X	X		
c. Retainer pin	X	X	X		
.25 Stock group	X	X		X	X
a. Stock assembly	X	X	X		
b. Shoulder rest	X	X	X		

202.3 PRINCIPLES OF OPERATION

.31 Describe/trace the firing cycle for semiautomatic and auto firing.

202.4 PARAMETERS

For the items listed answer the following questions:

A. What are the normal operating values and tolerances?

.41 Rate of fire
.42 Maximum effective range

202.5 SYSTEM INTERFACE

.51 How does improper cleaning affect this system?

202.6 SAFETY PRECAUTIONS - None to be discussed.

References:

a. Gunner's Mate G 3 & 2 (NAVEDTRA 10185)
b. Seabee Combat Handbook (NAVEDTRA 10479)

.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What are the safety/protective devices?

		A	B	C
.21	Slide	X	X	X
.22	Barrel	X	X	
.23	Barrel bushing	X	X	
.24	Front and rear sight	X	X	
.25	Receiver	X	X	
.26	Slide stop	X	X	
.27	Slide stop plunger and tube	X	X	
.28	Trigger and trigger guard	X	X	
.29	Magazine catch	X	X	
.210	Left-hand and right-hand stock	X	X	
.211	Lanyard loop	X	X	
.212	Grip safety	X	X	X
.213	Safety lock plunger	X	X	
.214	Safety lock	X	X	X
.215	Hammer	X	X	X
.216	Magazine	X	X	X
.217	Automatic disconnector	X	X	X

.3 PRINCIPLES OF OPERATION

.31 How do the components work together to achieve the system's function?

.32 What indications will you receive if the system is malfunctioning?

.4 PARAMETERS

For the items listed answer the following questions:

A. What are the normal operating values and tolerances?

.41 Magazine capacity

203.5 SYSTEM INTERFACE - None to be discussed.

203.6 SAFETY PRECAUTIONS - None to be discussed.

References:

a. TM 9-285
b. Seabee Combat Handbook (NAVEDTRA 10479)

1 What is the function of this system?

11 Refer to a standard print of this system or to the actual equipment.

2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What protection is provided by it?

		A	B	C
21	Barrel and receiver group	X	X	X
	a. Receiver	X	X	X
	b. Magazine spring	X	X	X
	c. Magazine spring cup	X	X	X
	d. Magazine nut and pin	X	X	X
	e. Yoke	X	X	X
	f. Yoke screw	X	X	X
	g. Magazine tube	X	X	X
	h. Slide handle	X	X	X
	i. Spring shell stop (right)	X	X	X
	j. Spring shell stop (left)	X	X	X
	k. Spring shell stop screw	X	X	X
	l. Carrier screw	X	X	X
	m. Trigger plate screw	X	X	X
	n. Barrel	X	X	X
22	Carrier group	X	X	X
	a. Carrier	X	X	X
	b. Breech block	X	X	X
	c. Slide	X	X	X
23	Trigger group	X	X	X
	a. Hammer	X	X	
	b. Slide stop	X	X	X
	c. Trigger plate	X	X	X
24	Stock group	X	X	X
	a. Stock	X	X	
	b. Stock bolt	X	X	X
	c. Butt plate	X		

.3 PRINCIPLES OF OPERATION

.31 Describe/trace the firing cycle.

204.4 PARAMETERS

For the items listed answer the following questions:

A. What are the normal operating values and tolerances?

.41 Maximum effective range

204.5 SYSTEM INTERFACE

.51 How does improper cleaning and maintenance affect this syste

204.6 SAFETY PRECAUTIONS - None to be discussed.

References:

a. TM 9-1010-221-14
b. TM 9-1010-205-34
c. Seabee Combat Handbook (NAVEDTRA 10479)
d. TM 9-1010-221-10

05.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

05.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What is the source of control signals?

		A	B	C
.21	Handguard	X	X	X
.22	Sight	X	X	
.23	Barrel	X	X	X
.24	Barrel extension	X	X	X
.25	Receiver	X	X	
.26	Barrel latch	X	X	
.27	Barrel stop	X	X	
.28	Trigger	X	X	
.29	Safety	X	X	
.210	Trigger guard	X	X	
.211	Firing pin	X	X	
.212	Firing pin spring	X	X	
.213	Follower	X	X	
.214	Cocking lever	X	X	

05.3 PRINCIPLES OF OPERATION

.31 What is the sequence of component involvement to accomplish a firing cycle?

05.4 PARAMETERS

For the items listed answer the following questions:

A. What are the normal operating values and tolerances?

.41 Maximum effective range
.42 Safe range

205.5 SYSTEM INTERFACE

.51 How does improper cleaning and maintenance affect this system?

.52 How does this system interface with the M-16 A1 Assault Rifle System?

205.6 SAFETY PRECAUTIONS - None to be discussed.

References:

a. Signalman 3 & 2 (NAVEDTRA 10135)
b. Gunner's Mate G 3 & 2 (NAVEDTRA 10185)

1 What is the function of this system?

11 Refer to a standard print of this system or to the actual equipment.

2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?

21 Barrel
22 Barrel lock
23 Trigger
24 Stock

3 PRINCIPLES OF OPERATION

31 How do the components work together to achieve the system's function?

4 PARAMETERS - None to be discussed.

5 SYSTEM INTERFACE - None to be discussed.

6 SAFETY PRECAUTIONS

61 What special safety precautions apply to the storage of pyrotechnics?

207 782 GEAR SYSTEM

Reference:

a. OPNAV P-34-03

207.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actua equipment.

207.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following component and component parts:

A. What is its function?

.21 Sleeping bag
.22 Sleeping bag cover
.23 Sleeping bag carrying strap
.24 Suspenders
.25 Canteen
.26 Canteen cover
.27 Canteen cup
.28 Poncho
.29 Poncho liner
.210 Flak jacket
.211 Mosquito net
.212 Web belt
.213 Entrenching tool
.214 Ammunition pouch
.215 Backpack (Alice pack)
.216 Helmet and liner
.217 First-aid pack
.218 Mess kit
.219 Shelter half
.220 Tent poles
.221 Tent pegs

207.3 PRINCIPLES OF OPERATION - None to be discussed.

207.4 PARAMETERS - None to be discussed.

207.5 SYSTEM INTERFACE - None to be discussed.

207.6 SAFETY PRECAUTIONS - None to be discussed.

208 TENT SYSTEM

References:

a. Beachmaster Manual
b. Tent Instructions (located on tent)

208.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

208.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?

		A	B
.21	Command post tent	X	X
	a. Tent liner	X	X
	b. 16-inch stakes (wooden)	X	X
	c. 24-inch stakes (wooden)	X	X
	d. 9-foot, upright poles	X	X
	e. 5-foot 8-inch, upright poles	X	X
	f. 12-inch stakes (metal)	X	X
	g. 6-inch stakes (metal)	X	X
.22	General purpose tent	X	X
	a. Tent liner	X	X
	b. 16-inch stakes (wooden)	X	X
	c. 24-inch stakes (wooden)	X	X
	d. 17-foot ridge pole	X	X
	e. 5-foot 8-inch side poles	X	X
	f. 6-foot 2-inch door poles	X	X
	g. 10-foot 2-inch upright pole	X	X
	h. 12-inch stakes (metal)	X	X
	i. 6-inch stakes (metal)	X	X
.23	Tent repair kit	X	X
	a. Grommet set	X	
	b. Glue	X	
	c. Beeswax	X	
	d. Sail twine	X	
	e. Palm and needles	X	
	f. Pressure roller	X	

208.3 PRINCIPLES OF OPERATION

.31 How do the components work together to achieve the system's function?

209 CAMP EQUIPMENT SYSTEM

References:

a. Beachmaster Manual
b. Manufacturer's Instruction Manual for Lantern, Stove, and
c. TM 10-7310-203-12

209.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

209.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?

.21 Tent heaters
.22 Camouflage nets
.23 Folding cots
.24 Field desk
.25 Folding table
.26 Lanterns
.27 Stove
.28 Space heater
.29 CO2 fire extinguisher
.210 Water fire extinguisher
.211 Portable toilets

209.3 PRINCIPLES OF OPERATION - None to be discussed.

209.4 PARAMETERS - None to be discussed.

209.5 SYSTEM INTERFACE - None to be discussed.

209.6 SAFETY PRECAUTIONS - None to be discussed.

References:

a. TM 11-6665-209-15
b. Naval Ships' Technical Manual, Chap 070
(NAVSEA 0901-LP-070-0000)
c. TM 11-6665-230-15
d. C1, FM21-40 (Marine/General Information)
e. Hull Maintenance Technician 3 & 2 (NAVEDTRA 10573)
f. Manufacturer's Handbook
g. Disaster Control (Ashore and Afloat) (NAVEDTRA 10899)

0.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

0.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What is the source of power?
D. What are the modes of operation or control?
E. What protection is provided by it?
F. What are the probable indications if this component fails?
G. What are the positions and functions of each position?

.21 Dosimeter (DT60/PD)
.22 Low-range self-indicating pocket dosimeter (IM-9/PD)
.23 High-range self-indicating pocket dosimeter (IM-143/PD)
.24 Radiac detector charger (PP-4276/PD)
.25 Radiac computer indicator (CP-95/PD)

0.3 PRINCIPLES OF OPERATION

.31 How is radiation detected and indicated in the following instruments:

a. Dosimeter (DT60/PD)
b. Low-range self-indicating pocket dosimeter (IM-9/PD)
c. High-range self-indicating pocket dosimeter (IM-143/PD)

.32 How are pocket dosimeters charged?

0.4 PARAMETERS

For the items listed answer the following questions:

A. What is the maximum level detected?

.41 Radiac computer indicator (CP-95/PD) radiation intensity level

.51 How does the radiac computer indicator (CP-95/PD) interface wit
DT60/PD dosimeter?

.52 How does the radiac detector charger (PP-4276/PD) interface wit
following:

a. Low-range self-indicating pocket dosimeter (IM-9/PD)
b. High-range self-indicating pocket dosimeter (IM-143/PD)

210.6 SAFETY PRECAUTIONS - None to be discussed.

References:

a. Hull Maintenance Technician 3 & 2 (NAVEDTRA 10573)
b. Naval Ships' Technical Manual, Chap 070 (NAVSEA 0901-LP-070-0000)
c. C1, FM21-40 (Marine/General Information)
d. TM 11-6665-209-15
e. TM 11-6665-230-15
f. Manufacturer's Instruction Book
g. Disaster Control (Ashore and Afloat) (NAVEDTRA 10899)

1 What is the function of this system?

11 Refer to a standard print of this system or to the actual equipment.

2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What is the source of power?
D. What are the modes of operation or control?
E. What protection is provided by it?
F. What are the probable indications if this component fails?
G. What are the positions and functions of each position?

21 Low-range survey meter (AN/PDR-27)
22 High-intensity survey meter (AN/PDR-43E)

3 PRINCIPLES OF OPERATION

31 How do the components work together to achieve the system's function?

4 PARAMETERS

For the items listed answer the following questions:

A. What are the normal operating values and tolerances?
B. Where are the parameters sensed or monitored?
C. What is the physical location of the indicators?
D. What is the alarm setpoint?

41 AN/PDR-27 beta-gamma radiation level
42 AN/PDR-43E beta-gamma radiation level

5 SYSTEM INTERFACE - None to be discussed.

6 SAFETY PRECAUTIONS - None to be discussed.

References:

a. Hull Maintenance Technician 3 & 2 (NAVEDTRA 10573)
b. TM 3-6665-307-10 (M-256)
c. TM 3-4230-213-10 (M-258)
d. TM 3-6665-12 (M42 and M43)
e. C1, FM21-40 (Marine/General Information)
f. Manufacturer's Instruction Book

212.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

212.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What are the modes of operation or control?
D. What are the positions and functions of each position?

		A	B	C	D
.21	Chemical agent detector kit (M-256)	X	X	X	X
.22	Individual decontaminating reimpregnating kit (MK-13)	X	X	X	X
.23	Skin decontaminating kit (M-258)	X	X	X	X
.24	Chemical agent detector paper (ABC-M8)	X	X		
.25	Amyl nitrite ampules	X	X		
.26	Automatic atropine injector	X	X		
.27	Water chemical test kit (AN-M2)	X	X		X
.28	Automatic chemical agent alarm	X	X		
	a. M-43 detector unit	X	X	X	
	b. M-42 alarm unit	X	X	X	

212.3 PRINCIPLES OF OPERATION

.31 What steps are taken to detect chemicals (using each component)

212.4 PARAMETERS - None to be discussed.

212.5 SYSTEM INTERFACE - None to be discussed.

212.6 SAFETY PRECAUTIONS - None to be discussed.

References:

a. C1, FM21-40 (Marine/General Information)
b. TM 3-4240-279-10 and 20P (Filter Sets)
c. TM 10-277 (Protective Clothing)

1 What is the function of this system?

11 Refer to a standard print of this system or to the actual equipment.

2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What are the safety/protective devices?
D. What protection is provided by it?
E. What are the probable indications if this component fails?

		A	B	C	D	E
21	Chemical protective mask/filters (MK-17)	X	X	X	X	X
	a. Voicemitter	X	X			X
22	Chemical protective hood (M-6A2)	X	X	X	X	X
23	Chemical protective smock/trousers/gloves	X	X			X
24	Leather dressing (vesicant gas resistant (M2))	X	X		X	X
25	Canteen accessory	X	X			X
26	Resuscitation tube	X	X			X

3 PRINCIPLES OF OPERATION

31 How do the components work together to achieve the system's function?

32 What indication will you receive if the system is malfunctioning?

4 PARAMETERS

41 What is the maximum time limit for the use of the chemical protective mask/filters (MK-17)?

5 SYSTEM INTERFACE - None to be discussed.

6 SAFETY PRECAUTIONS

61 What special safety precautions apply to:

a. Filters in the chemical mask (MK-17)
b. Protective clothing/mask

214 PORTABLE FIREFIGHTING EQUIPMENT SYSTEM

Reference:

a. Naval Ships' Technical Manual, Chap 9930
(NAVSEA 0901-LP-930-0003)

214.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

214.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?

nozzle
ator
.27 -gate valve

214.3 PRINCIPLES OF OPERATION

.31 How do the components work together to achieve the system's function?

214.4 PARAMETERS - None to be discussed.

214.5 SYSTEM INTERFACE

.51 How does this system interface with the P-250 Pump System?

214.6 SAFETY PRECAUTIONS - None to be discussed.

References:

- a. Naval Ships' Technical Manual, Chap 079, Vol 2 (NAVSEA S9086-CN-STM-020)
- b. Naval Ships' Technical Manual, Chap 9930 (NAVSEA 0901-LP-930-0003)
- c. Manufacturer's Technical Manual

1 What is the function of this system?

11 Refer to a standard print of this system or to the actual equipment.

2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?

21 Engine
22 Fuel system
  a. Fuel tank
  b. Priming button
  c. Fuel line to carburetor
  d. Carburetor
  e. Carburetor high-speed dial
23 Pump
24 Foot valve and strainer
25 Suction hose
26 Manual priming bowl (bucket prime)
27 Discharge valve
28 Tri-gate valve/Y-gate
29 Discharge hose
210 Pressure-regulating valve
211 Starter
212 Exhaust

3 PRINCIPLES OF OPERATION

31 How do the components work together to achieve the system's function?

32 Using a diagram of the system, show the path of:

a. Water from the suction hose to the discharge valve.
b. Fuel from the fuel tank to the carburetor.

For the items listed answer the following questions:

A. What are the normal operating values and tolerances?
B. What is the physical location of the indicators?
C. What are the maximum amd minimum allowable operating values?

.41 Discharge pressure
.42 Maximum suction lift
.43 Carburetor high-speed dial setting

215.5 SYSTEM INTERFACE

.51 How do the following outside influences affect this system:

a. Clogged strainer
b. Oily water

.52 How does this system interface with the Portable Firefighting Equipment System?

215.6 SAFETY PRECAUTIONS

.61 What special safety precautions apply to:

a. Pumping contaminated liquids with an internal combustion engi pump
b. Securing P-250 due to loss of suction within a maximum time o 45 seconds when starting or operating pump

Reference:

a. Beachmaster Manual

.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?

.21 Patch bolts
.22 Crosscut hand saw
.23 Keyhole saw
.24 Brace and bits
.25 Carpenter's hammer
.26 Axe
.27 Tin snips
.28 Wood chisel
.29 Putty knife
.210 Canvas
.211 Plywood
.212 Wood screws
.213 Nails
.214 Oakum
.215 Sheet lead
.216 White lead
.217 DC plugs

.3 PRINCIPLES OF OPERATION - None to be discussed.

.4 PARAMETERS - None to be discussed.

.5 SYSTEM INTERFACE

.51 How do wet pipes affect this system?

.6 SAFETY PRECAUTIONS - None to be discussed.

217 SALVAGE EQUIPMENT SYSTEM

Reference:

a. Beachmaster Manual

217.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

217.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?

.21 Wire straps
.22 Snatch block
.23 Antibroaching lines
.24 Towline
.25 P-250 pump
.26 10-foot suction hose
.27 4-foot applicator
.28 Foot valve with strainer
.29 Y-gate
.210 Fire extinguishers
.211 Blitz cans
.212 Slave cable
.213 Sledge hammer
.214 Wrecking/pry bar
.215 Shovel
.216 Boathook
.217 Bucket (2-1/2 gallon)
.218 Salvage box
    a. Heaving lines
    b. Seizing wire
    c. Marline
    d. Shackle
    e. Wire clip
    f. Marlinespike
    g. Direct-current (DC) plugs
    h. Leadline
    i. Blitz can spout
    j. Tool box (assorted wrenches, pliers, screwdrivers, etc.)

217.3 PRINCIPLES OF OPERATION

.31 How do the components work together to achieve the system's f

Reference:

a. Manufacturer's Instruction Manual

.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?

.21 Engine
- a. Spark plug
- b. Choke
- c. Idle adjustment screw
- d. Breather
- e. Crankcase oil filter
- f. Oil drain
- g. Rewind hand-pull starter

.22 Generator
- a. Alternating-current (AC) outlet

.3 PRINCIPLES OF OPERATION

.31 How do the components work together to achieve the system's function?

.4 PARAMETERS - None to be discussed.

.5 SYSTEM INTERFACE - None to be discussed.

.6 SAFETY PRECAUTIONS - None to be discussed.

219 MULTIPURPOSE SIGNAL LIGHT SYSTEM

Reference:

a. Signalman 3 & 2 (NAVEDTRA 10135)

219.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

219.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What is the source of power?
D. What are the modes of operation or control?
E. What are the probable indications if this component fails?

		A	B	C	D	E
.21	Sight	X	X			X
.22	Dimmer	X	X	X	X	X
.23	Trigger	X	X	X	X	X
.24	Pistol grip	X	X			X
.25	Power supply cable	X	X	X		X
.26	Battery	X	X			X
.27	Bulb	X	X	X		X

219.3 PRINCIPLES OF OPERATION

.31 How do the components work together to achieve the system's functio

.32 What indications will you receive if the system is malfunctioning?

219.4 PARAMETERS - None to be discussed.

219.5 SYSTEM INTERFACE - None to be discussed.

219.6 SAFETY PRECAUTIONS - None to be discussed.

Reference:

a. Signalman 3 & 2 (NAVEDTRA 10135)

1 What is the function of this system?

11 Refer to a standard print of this system or to the actual equipment.

2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What is the source of power?
D. What are the modes of operation or control?
E. What are the safety/protective devices?
F. What protection is provided by it?
G. What are the probable indications if this component fails?

		A	B	C	D	E	F	G
21	Drum	X	X					X
22	Vane sights	X	X					X
23	Shutter assembly	X	X		X	X		X
24	Signal lever	X	X		X			X
25	Trunnion bearing	X	X					X
26	Leather bumper	X	X				X	X
27	Locking clamp (drum)	X	X		X			X
28	Yoke	X	X					X
29	Mounting bracket	X	X					X
210	Locking clamp (yoke)	X	X		X			X
211	Parabolic reflector	X	X					X
212	Lamp (1000-watt)	X	X	X	X			X
213	Electrical lead	X	X	X				X
214	Male plug	X	X	X				X
215	Mounting bracket (Nancy gear)	X	X					X
216	"H" hood	X	X		X		X	X
217	Tripod	X	X					X
218	Filter assembly	X	X		X		X	X

3 PRINCIPLES OF OPERATION

31 How do the components work together to achieve the system's function?

32 What are the two power sources used for operation?

4 PARAMETERS - None to be discussed.

220.5 SYSTEM INTERFACE

.51 How does the loss of electric power affect this system?

.52 How does this system interface with the Infrared Viewing Set System?

220.6 SAFETY PRECAUTIONS - None to be discussed.

Reference:

a. Signalman 3 & 2 (NAVEDTRA 10135)

221.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

221.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What is the source of power?
D. What are the modes of operation or control?
E. What protection is provided by it?
F. What are the probable indications if this component fails?
G. What are the positions and functions of each position?

		A	B	C	D	E	F	G
.21	Eyeshield	X	X		X	X	X	
.22	Focusing ring	X	X				X	
.23	8.6 power eyepiece assembly	X	X		X		X	
.24	Mounting clamp grooves	X	X				X	
.25	Rotary switch	X	X	X			X	X
.26	Objective lens assembly	X	X	X			X	
.27	Caps	X	X			X	X	
.28	Batteries	X	X				X	
.29	Power supply	X	X	X			X	
.210	Power eyepiece assembly	X	X		X		X	

221.3 PRINCIPLES OF OPERATION

.31 How do the components work together to achieve the system's function?

.32 What indications will you receive if the system is malfunctioning?

221.4 PARAMETERS - None to be discussed.

221.5 SYSTEM INTERFACE

.51 How does this system interface with the 12-Inch Incandescent Searchli System?

221.6 SAFETY PRECAUTIONS

.61 What special safety precautions apply to viewing bright light

222 NIGHT VISION SIGHT, MODEL 1-4 (MK 36) SYSTEM

References:

a. Signalman 3 & 2 (NAVEDTRA 10135)
b. OP 4067

222.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

222.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What is the source of power?
D. What are the modes of operation or control?
E. What are the safety/protective devices?

	A	B	C	D	E
.21 Main housing	X	X			
.22 Objective lens assembly	X	X			
a. Cap	X	X			
b. Focus ring	X	X			
.23 Image intensifier assembly	X	X			
.24 Eyepiece assembly	X	X			
a. Focus ring	X	X			
b. Eyeshield	X	X		X	
.25 Power supply	X	X	X	X	
a. Battery cap and battery	X	X	X		
b. Toggle switch	X	X		X	
c. Oscillator (inverter)	X	X		X	X

222.3 PRINCIPLES OF OPERATION

.31 How do the components work together to achieve the system's funct

.32 What indications will you receive if the system is malfunctioning

222.4 PARAMETERS - None to be discussed.

222.5 SYSTEM INTERFACE

.51 How does this system interface with the M-16 A1 Assault Rifle Sys

222.6 SAFETY PRECAUTIONS

.61 What special safety precautions apply to operating in bright ligh

223 RADIO SET (AN/URC-35) SYSTEM

Reference:

a. Manufacturer's Technical Manual (NAVSEA 0961-LP-287-5010)

223.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

223.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What is the source of power?
D. What are the modes of operation or control?
E. What are the safety/protective devices?
F. What protection is provided by it?
G. What are the probable indications if this component fails?
H. What are the positions and functions of each position?

	A	B	C	D	E	F
.21 Front panel controls (RT-618)	X	X				
a. Function selector switch	X	X				
b. Mode selector switch	X	X		X		
c. 10-MHz control knob	X	X				
d. 1-MHz control knob	X	X				
e. 100-kHz control knob	X	X				
f. 10-kHz control knob	X	X				
g. 1-kHz control knob	X	X				
h. Cycles switch	X	X		X		
i. Vernier tuning control knob	X	X		X		
j. Vernier indicator light	X	X				
k. Local/remote selector switch	X	X		X		
l. Line level control knob	X	X				X
m. Power control (PWR CONT) switch	X	X				X
n. Radiofrequency (RF) gain control knob	X	X				X
o. Phone level control knob	X	X				X
p. Line level selector switch	X	X				X
q. Line level meter	X	X				X
r. Noise blanker control knob	X	X				X
s. Panel lights switch	X	X				
t. Blown fuse indicator	X	X				X
u. Handset jack	X	X				
v. Continuous-wave (CW) key jack	X	X				
w. Phone jack	X	X				
x. Beat frequency oscillator frequency control knob	X	X				

223.2 SYSTEM COMPONENTS AND COMPONENT PARTS (CONT'D)

	A	B	C	D	E	F	G
e. Antenna coupler tune indicator light	X	X					X
f. Primary power selector switch	X	X	X	X			X
g. Primary power indicator light	X	X					X
h. Amplifier meter	X	X		X			X
i. Primary power fuses (2)	X	X				X	X
j. Primary power on/off switch	X	X	X	X	X		X
k. Antenna coupler tune control switch	X	X					X
l. Antenna coupler load control switch	X	X					X
.23 Antenna coupler (CU-937)	X	X					
a. RF input jack (J2)	X	X	X				X
b. Power/control jack (J4)	X	X	X				X
c. RF output terminal (E2)	X	X	X				X
d. Pressure gauge (M1)	X	X	X				X
e. Valve stem	X	X					X
.24 Ancillary equipment (auxiliary)	X	X					
a. Handset	X	X		X			X
b. Remote speaker	X	X					X
c. Antenna (15-foot whip/35-foot whip)	X	X	X				X
d. CW key	X	X		X			X
.25 Power sources	X	X					
a. 110V AC	X	X	X				X
b. 24V DC	X	X	X				X

223.3 PRINCIPLES OF OPERATION

.31 What is the sequence of component involvement to accomplish tuning and operation of the radio set?

.32 What indications will you receive if the system is malfunctioning?

223.4 PARAMETERS

For the items listed answer the following questions:

A. What are the normal operating values and tolerances?

.41 Front panel control (RT-618) line level
.42 Front panel control (AM-3007) RF output
.43 Front panel control (AM-3007) amplifier audio level
.44 Antenna coupler (CU-937) pressure

223.5 SYSTEM INTERFACE

.51 How do the following outside influences affect this system:

a. Input power variations
b. Loss of input power
c. Operating location
d. Atmospheric conditions

224 RADIO SET (AN/VRC-46) SYSTEM

Reference:

a. TM 11-5820-401-10

224.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

224.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What is the source of power?
D. What are the modes of operation or control?
E. What are the safety/protective devices?
F. What are the probable indications if this component fails?
G. What are the positions and functions of each position?

		A	B	C	D	E	F	G
.21	Receiver-transmitter (R/T-524/VRC)	X	X					
	a. Power on-off/high-low switch	X	X	X	X	X	X	X
	b. Speaker on-off switch	X	X				X	X
	c. Volume control knob	X	X		X		X	
	d. MC tune knob	X	X				X	X
	e. KC tune knob	X	X				X	X
	f. Band control switch	X	X				X	X
	g. Squelch mode control switch	X	X		X		X	X
	h. Dial/call light switch	X	X				X	X
	i. Antenna control connector jack	X	X				X	
	j. Mike/speaker connector jacks	X	X				X	
	k. Antenna output connector jack	X	X				X	
	l. X-mode connector jack	X	X				X	
	m. Loudspeaker	X	X				X	
	n. Power input connector jack	X	X				X	
	o. Call light indicator	X	X				X	
	p. Channel dial illuminating light	X	X				X	
.22	Mounting tray (MT-1029/VRC)	X	X	X		X	X	
.23	Antenna system (AS-1729/VRC)	X	X				X	
.24	Antenna system whip elements (AT-1095, 1096/VRC)	X	X				X	
.25	Antenna system matching unit (MX-6707/VRC)	X	X				X	
	a. RF input jack	X	X	X			X	
	b. Antenna control jack	X	X				X	
	c. Frequency range selector switch	X	X				X	X
	d. Drain screw	X	X				X	
.26	Auxiliary equipment	X	X				X	

)F OPERATION

sequence of component involvement to set up and ope
:t?

:ions will you receive if the system is malfunction

· None to be discussed.

{FACE

following outside influences affect this system:

ɔwer variations
input power
ng location

is system interface with the following:

cations jeep (M151A)
System

AUTIONS - None to be discussed.

225 RADIO SETS (AN/PRC-25 AND AN/PRC-77) SYSTEM 225

References:

a. TM 11-5820-398-12 (AN/PRC-25)
b. TM 11-5820-667-12 (AN/PRC-77)

225.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

225.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What is the source of power?
D. What are the modes of operation or control?
E. What are the probable indications if this component fails?
F. What are the positions and functions of each position?

		A	B	C	D	E	F
.21	Receiver-transmitter (R/T) (RT-505, 841)	X	X				
	a. Function switch	X	X				
	b. Band switch	X	X			X	X
	c. MC tuning control knob	X	X			X	X
	d. KC tuning control knob	X	X			X	X
	e. R/T frequency dial	X	X			X	X
	f. Preset levers	X	X			X	X
	g. Volume control knob	X	X		X	X	
	h. Audio connector jacks (2)	X	X			X	
	i. Antenna mount	X	X			X	
	j. Antenna connector	X	X			X	
	k. Power connector	X	X	X	X	X	
	l. Battery connector	X	X			X	
.22	Electrical equipment harness (ST-138)	X	X				
.23	Cotton duck bag (CW-503)	X	X			X	
.24	Antenna kit	X	X				
	a. Antenna support (AB-591)	X	X			X	
	b. Antenna (AT-271A)	X	X			X	
	c. Antenna (AT-892)	X	X			X	
.25	Auxiliary equipment	X	X				
	a. Handset	X	X	X		X	
	b. Dry battery (BA-386/PRC-25)	X	X			X	
	c. Field speaker	X	X	X		X	

225.3 PRINCIPLES OF OPERATION

225.4 PARAMETERS - None to be discussed.

225.5 SYSTEM INTERFACE

.51 How do the following outside influences affect this system:

a. Input power variation
b. Loss of input power
c. Operating location

.52 How does this system interface with the following:

a. Cryptographic Device (KY-38) System and carrying frame
b. Antenna System (AN-1729/VRC) of the Radio Set (AN/VRC-4

225.6 SAFETY PRECAUTIONS

.61 What special safety precautions apply to the use and dispos magnesium batteries?

References:

a. Operator's Manual (KAO-150A)
b. Operator's Manual (AN/PRC-77)
c. TM 11-5820-667-12

226.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

226.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What is the source of power?
D. What are the modes of operation or control?
E. What are the safety/protective devices?
F. What protection is provided by it?
G. What are the probable indications if this component fails?
H. What are the positions and functions of each position?

		A	B	C	D	E	F	G	H
.21	Zeroize switch	X	X				X	X	X
.22	Access door	X	X			X	X	X	X
.23	Audio connectors	X	X					X	
.24	Radio connector	X	X					X	
.25	Volume control knob	X	X					X	X
.26	Power/function switch	X	X	X	X	X	X	X	X
.27	Delay switch	X	X					X	X
.28	Power ON light	X	X	X				X	
.29	Battery connectors	X	X	X				X	X
.210	Auxiliary equipment	X	X						
	a. Handset	X	X	X				X	X
	b. Dry batteries (BA-386/PRC-25)	X	X					X	X
	c. Cable (CX-10475/U)	X	X					X	X
	d. Carrying frame and straps	X	X					X	X

226.3 PRINCIPLES OF OPERATION

.31 What is the sequence of component involvement to set up and operate t cryptographic device?

.32 What indications will you receive if the system is malfunctioning?

226.4 PARAMETERS

For the items listed answer the following questions:

226.5 SYSTEM INTERFACE

.51 How do the following outside influences affect this system

a. Input power variation
b. Loss of input power
c. Operating location
d. Simultaneous transmission by two or more stations

.52 How does this system interface with the Radio Set (AN/PRC-

226.6 SAFETY PRECAUTIONS

.61 What special safety precautions apply to the use and dispo of magnesium batteries?

227 TELEPHONE SET (TA-312/PT) SYSTEM

Reference:

a. TM 11-2155

227.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

227.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What is the source of power?
D. What are the probable indications if this component fails?

		A	B	C	D
.21	Handset (H-60/PT)	X	X	X	X
.22	Panel and housing assembly	X	X		
a.	Buzzer (BZ-23/PT)	X	X	X	X
b.	Hand-ringing generator (G-42A/PT)	X	X	X	X
c.	Impedance matching network (CU-350/PT)	X	X		X
d.	Handset retaining bracket	X	X		
e.	Line switch	X	X		X
f.	External battery terminals	X	X		
g.	Battery compartment cover and latch	X	X	X	
h.	Carrying case retaining strap	X	X		
i.	Circuit selector switch	X	X		
j.	Handset cushion	X	X		
k.	Buzzer volume control knob	X	X		
l.	External/internal switch	X	X		
m.	Receptacle connector (U-79/U)	X	X		
n.	Receptacle cover	X	X		
o.	Lines 1 and 2 binding posts	X	X		
p.	Designation strip	X	X		
.23	Telephone set case (1277A/PT)	X	X		
.24	Auxiliary equipment	X	X		
a.	Batteries (BA-30) (2)	X	X		X
b.	Field telephone wire (WD-1/TT)	X	X		X
c.	Handset-headset (H-144/U)	X	X		X

227.3 PRINCIPLES OF OPERATION

.31 How do the components work together to achieve the system's funct

.32 What is the sequence of component involvement to accomplish:

227.4 PARAMETERS - None to be discussed.

227.5 SYSTEM INTERFACE

.51 How do the following outside influences affect this syste

a. Wet conditions
b. Extreme dry conditions
c. Variations in or loss of electric power

.52 How does this system interface with the Telephone Switchb
(SB-22/PT) System?

227.6 SAFETY PRECAUTIONS - None to be discussed.

228 TELEPHONE SWITCHBOARD (SB-22/PT) SYSTEM 228

Reference:

a. TM 11-5805-262-12 (SB-22/PT)

228.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

228.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What is the source of power?
D. What are the modes of operation or control?
E. What are the probable indications if this component fails?
F. What are the positions and functions of each position?

	A	B	C	D	E	F
.21 Telephone circuit line jacks (TA-222/PT)	X	X			X	
a. Line or trunk signal indicator	X	X	X	X	X	X
b. Line or trunk jack	X	X			X	
c. Plug	X	X			X	
d. Designation strip	X	X			X	
.22 Telephone circuit (TA-221/PT)	X	X	X	X		X
a. Generator handwheel	X	X	X		X	
b. Visual and audible alarm switch	X	X		X	X	X
c. Ringing switch	X	X		X	X	X
d. Operator cord	X	X			X	
e. Operator jack	X	X			X	
f. Operator telephone set receptacle	X	X			X	
g. Night alarm and light switch	X	X		X	X	X
.23 Accessory kit (MX-2915/PT)	X	X				
a. Line packs	X	X			X	
b. Trunk pack	X	X			X	
.24 Auxiliary equipment	X	X				
a. Handset-headset (H-81A/U)	X	X	X		X	
b. Batteries (BA-30) (4)	X	X			X	
c. Field telephone wire (WD-1/TT)	X	X			X	

228.3 PRINCIPLES OF OPERATION

.31 What is the sequence of component involvement to set up and operate the telephone switchboard?

228.4 PARAMETERS - None to be discussed

228.5 SYSTEM INTERFACE

.51 How do the following outside influences affect this system: 2

a. Wet conditions
b. Extreme dry conditions
c. Variations in or loss of electric power

.52 How does this system interface with the Telephone Set (TA-312,
System?

228.6 SAFETY PRECAUTIONS - None to be discussed.

229 LARC-V MARINE EQUIPMENT SYSTEM 229

Reference:

a. Beachmaster Manual

229.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

229.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?

.21 Hoisting sling
.22 30-lb anchor with 150-foot line
.23 Life jackets (inflatable and kapok)

229.3 PRINCIPLES OF OPERATION - None to be discussed.

229.4 PARAMETERS - None to be discussed.

229.5 SYSTEM INTERFACE - None to be discussed.

229.6 SAFETY PRECAUTIONS - None to be discussed.

230 LARC-V EMERGENCY EQUIPMENT SYSTEM

References:

a. TM 55-510
b. TM 55-1930-205-10

230.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

230.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?

.21 Hand bilge pump
.22 Installed carbon dioxide (CO2) fire extinguisher
.23 Portable CO2 fire extinguisher
.24 Life rings (2)
.25 Portable trouble light
.26 Marker buoy
.27 First-aid kit
.28 Pole stretcher

230.3 PRINCIPLES OF OPERATION - None to be discussed.

230.4 PARAMETERS - None to be discussed.

230.5 SYSTEM INTERFACE - None to be discussed.

230.6 SAFETY PRECAUTIONS - None to be discussed.

a. TM 9-2330-251-14P (1/4-Ton Cargo Trailer) (M416)
b. TM 9-2330-202-14P (3/4-Ton Cargo Trailer) (M101A1)
c. TM 2330-267-14) (1-1/2-Ton, 400 Gallon, Water Trailer) (M149A1)
d. TM 9-2330-213-14 (1-1/2-Ton Cargo Trailer)

231.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

231.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What is the source of power?
D. What are the modes of operation or control?
E. What are the safety/protective devices?
F. What protection is provided by it?
G. What are the probable indications if this component fails?
H. What is the source of control signals?
I. What are the positions and functions of each position?
J. What are the interlocks?

		A	B	C	D	E	F	G	H	I	J
.21	Frame and attaching parts	X	X					X			
.22	Cargo body/tank assembly	X	X			X	X	X			
.23	Suspension	X	X					X			X
.24	Wheels, tires, and tubes	X	X					X			X
.25	Brakes, hub, and drum assembly	X	X	X	X		X	X			X
.26	Electric equipment	X	X	X	X			X	X	X	

231.3 PRINCIPLES OF OPERATION

.31 How do the components work together to achieve the system's functio

231.4 PARAMETERS

For the items listed answer the following questions:

A. What are the normal operating values and tolerances?
B. Where are the parameters sensed or monitored?

		A	B
.41	Normal tire pressure	X	X
.42	Maximum cargo weight	X	

231.5 SYSTEM INTERFACE

.51 How does this system interface with the 1/4-ton, 1-1/4-ton, a 2-1/2-ton utility trucks?

231.6 SAFETY PRECAUTIONS

.61 What special safety precautions apply to the hazards of steam

232 UTILITY TRUCK (1/4-TON) (M151A1/M151A2) SYSTEM 232

References:

a. TM 9-2320-218-34/34P
b. TM 9-2320-218-10

232.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

232.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What is the source of power?
D. What are the modes of operation or control?
E. What are the safety/protective devices?
F. What protection is provided by it?
G. What are the probable indications if this component fails?
H. What is the source of control signals?
I. What are the positions and functions of each position?

		A	B	C	D	E	F	G	H	I
.21	Body group	X				X	X			
.22	Engine	X	X	X	X	X	X	X		
.23	Clutch group	X	X	X	X			X		X
.24	Transmission	X	X	X	X			X	X	X
.25	Parking brake	X	X		X			X		X
.26	Service brake	X	X	X				X		
.27	Cooling system	X	X			X	X	X		
.28	Fuel system	X	X	X		X	X	X		
.29	Exhaust system	X	X					X		
.210	Steering assembly	X	X	X				X		
.211	Suspension	X	X					X		
.212	Electrical system	X	X	X	X	X	X	X	X	
.213	Instrument panel	X	X	X	X	X	X	X	X	
.214	Fording group	X	X					X		
.215	Wheels	X	X	X			X	X		
.216	Canvas and accessories	X	X			X	X			

232.3 PRINCIPLES OF OPERATION - None to be discussed.

232.4 PARAMETERS

For the items listed answer the following questions:

232.4 PARAMETERS (CONT'D)

		A	B	C
.41	Tire pressure and wear	X	X	X
.42	Battery voltage and fluid level	X	X	X
.43	Fan/generator drive belt tension	X	X	
.44	Radiator water level and temperature	X	X	X
.45	Lug nut torque	X	X	
.46	Engine oil level and pressure	X	X	X
.47	Fuel pump pressure	X	X	
.48	Brake pedal free travel	X	X	
.49	Clutch pedal free travel	X	X	
.410	Link and idler assembly play	X		
.411	Steering gear oil level	X	X	
.412	Transmission and transfer case oil level	X	X	
.413	Differential oil level	X	X	
.414	Brake fluid level	X	X	

232.5 SYSTEM INTERFACE

.51 How does this system interface with the Radio Systems?

232.6 SAFETY PRECAUTIONS

.61 What special safety precautions apply to:

a. High center of gravity
b. Flammable fumes from fuel
c. Explosive fumes from batteries
d. Electric shock
e. On/off highway operation

33 UTILITY TRUCK (1-1/4-TON) (M715) SYSTEM

References:

a. TM 9-2320-209-10
b. TM 9-2320-244-20/20P
c. TM 9-2320-244-10

33.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

33.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What is the source of power?
D. What are the modes of operation or control?
E. What are the safety/protective devices?
F. What protection is provided by it?
G. What are the probable indications if this component fails?
H. What is the source of control signals?
I. What are the positions and functions of each position?
J. What are the interlocks?

		A	B	C	D	E	F	G	H	I	J
.21	Frame	X	X								
.22	Cab	X	X								
.23	Cargo body	X	X								
.24	Engine	X	X	X	X	X	X	X			
.25	Transmission and clutch group	X	X	X	X	X	X	X	X	X	X
.26	Transfer case	X	X	X	X			X	X	X	X
.27	Brake system	X	X	X		X	X	X	X	X	
.28	Suspension system	X	X					X			
.29	Fuel system	X	X	X		X	X	X			
.210	Cooling system	X	X			X	X	X	X		
.211	Electrical system	X	X	X	X	X	X	X	X		
.212	Instrument panel	X	X	X	X	X	X	X	X		
.213	Wheels	X	X	X				X			
.214	Vehicle accessories	X	X			X	X				
.215	Fording group	X	X				X	X			

33.3 PRINCIPLES OF OPERATION - None to be discussed.

33.4 PARAMETERS

For the items listed answer the following questions:

233.4 PARAMETERS (CONT'D)

.41 Lug nut torque
.42 Tire pressure and wear
.43 Battery voltage and fluid level
.44 Engine coolant level and temperature
.45 Engine oil level and pressure
.46 Clutch pedal free travel
.47 Brake pedal free travel
.48 Tie rod end play
.49 Steering gear oil level
.410 Fan/generator drive belt tension
.411 Fuel pump pressure
.412 Transmission and transfer case oil level
.413 Differential oil level
.414 Brake fluid level

233.5 SYSTEM INTERFACE

.51 How does this system interface with the Radio Systems

233.6 SAFETY PRECAUTIONS

.61 What special safety precautions apply to:

a. High center of gravity
b. Flammable fumes from fuel
c. Explosive fumes from batteries
d. Electrical shock hazards
e. On/off highway operations

234 6 X 6 UTILITY TRUCK (2-1/2-TON) (M35A2) SYSTEM 234

References:

a. TM 9-2320-209-10/20
b. TM 9-2320-209-35/35P
c. TM 9-2520-246-35
d. TM 9-2320-211-20/20P
e. TM 9-2320-29-10

234.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

234.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What is the source of power?
D. What are the modes of operation or control?
E. What are the safety/protective devices?
F. What protection is provided by it?
G. What are the probable indications if this component fails?
H. What is the source of control signals?
I. What are the positions and functions of each position?
J. What are the interlocks?

		A	B	C	D	E	F	G	H	I	J
.21	Frame	X	X								
.22	Cab	X	X								
.23	Cargo body	X	X								
.24	Engine	X	X	X	X	X	X	X			
.25	Transmission and clutch group	X	X	X	X	X	X	X	X	X	X
.26	Transfer case	X									
.27	Air system	X	X	X	X	X	X	X			X
.28	Brake system	X	X	X		X	X	X	X	X	X
.29	Suspension	X	X					X			
.210	Fuel system	X	X	X		X	X	X			X
.211	Cooling system	X	X		X	X	X	X	X		
.212	Electrical system	X	X	X	X	X	X	X	X		
.213	Instrument panel	X	X	X	X	X	X	X	X		
.214	Wheels	X	X	X				X			
.215	Fording group	X	X				X	X			
.216	Vehicle accessories	X	X			X	X				

234.3 PRINCIPLES OF OPERATION - None to be discussed.

234.4 PARAMETERS

For the items listed answer the following questions:

A. What are the normal operating values and tolerances?
B. Where are the parameters sensed or monitored?
C. What is the physical location of the indicators?
D. What is the alarm setpoint?

		A	B	C	D
.41	Tire pressure and wear	X	X	X	
.42	Lug nut torque	X	X		
.43	Battery voltage and fluid level	X	X	X	X
.44	Engine coolant level and temperature	X	X	X	X
.45	Engine oil level and pressure	X	X	X	X
.46	Airbrake air pressure	X	X	X	X
.47	Clutch pedal free travel	X	X		
.48	Brake pedal free travel	X	X		
.49	Tie rod end play	X	X		
.410	Drag link play	X	X		
.411	Steering gear oil level	X	X		
.412	Fan/generator drive belt tensions	X	X		
.413	Air compressor drive belt tensions	X	X		
.414	Transmission oil level	X	X		
.415	Transfer case oil level	X	X		
.416	Differential oil level	X	X		
.417	Operational air pressure	X	X	X	X

234.5 SYSTEM INTERFACE

.51 How does high humidity on the air compressor affect this syst

.52 How does this system interface with the following:

a. Trailer Brake System
d. Radio Systems

234.6 SAFETY PRECAUTIONS

.61 What special safety precautions apply to:

a. Parking vehicle in gear
b. Use of engine preheater
c. Fuel and fuel injectors
d. High air pressure
e. Explosive fumes from batteries
f. High center of gravity
g. On/off highway operations

35 LARC-V SYSTEM

References:

a. TM 55-1930-205-10
b. TM 55-510
c. TM 55-1930
d. TM 55-1930-10
e. TM 55-1930-205-35
f. TM 55-1930-205-35P

35.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

35.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What is the source of power?
D. What are the modes of operation or control?
E. What are the safety/protective devices?
F. What protection is provided by it?
G. What are the probable indications if this component fails?
H. What is the source of control signals?
I. What are the positions and functions of each position?

		A	B	C	D	E	F	G	H	I
.21	Hull assembly	X								
.22	Power train	X	X	X	X	X	X	X	X	X
.23	Steering system	X	X	X	X	X	X	X		
.24	Brake system	X	X	X	X			X	X	X
.25	Cooling system	X	X			X	X	X	X	
.26	Fuel system	X	X	X	X	X		X	X	X
.27	Electrical system	X	X	X	X	X	X	X	X	X
.28	Hydraulic system	X	X	X	X	X	X	X	X	X
.29	Primary fuel filter	X	X	X	X	X	X	X	X	X

35.3 PRINCIPLES OF OPERATION - None to be discussed.

35.4 PARAMETERS

For the items listed answer the following questions:

A. What are the normal operating values and tolerances?
B. Where are the parameters sensed or monitored?
C. What is the physical location of the indicators?

235.4 PARAMETERS (CONT'D)

		A	B	C
.44	High-low transfer transmission oil level	X	X	
.45	Differential transmission end oil level	X	X	
.46	Right-angle drive oil level	X	X	
.47	Wheel end oil level	X	X	
.48	Brake fluid level	X	X	
.49	Coolant water level and temperature	X	X	X
.410	Generator drive belt tension	X	X	
.411	Fan/water pump drive belt tension	X	X	
.412	Battery voltage and fluid level	X	X	X
.413	Hydraulic oil level	X	X	

235.5 SYSTEM INTERFACE

.51 How does this system interface with the following:

a. Land operations
b. Water operations
c. Radio Systems

235.6 SAFETY PRECAUTIONS

.61 What special safety precautions apply to:

a. The hazards of entering a space after an installed CO2 has been used
b. Rough terrain operation
c. Explosive gas from batteries

36 D-8K CRAWLER TRACTOR SYSTEM

Reference:

a. Caterpillar Tractor Company Operator's Manual

36.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

36.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. Where is it located?
C. What is the source of power?
D. What are the modes of operation or control?
E. What are the safety/protective devices?
F. What protection is provided by it?
G. What are the probable indications if this component fails?
H. What is the source of control signals?
I. What are the positions and functions of each position?

		A	B	C	D	E	F	G	H	I
.21	Cooling system	X	X			X	X	X	X	
.22	Electrical system	X	X	X	X	X	X	X	X	
.23	Engine	X	X	X		X	X	X		
.24	Torque converter, transmission, and differential	X	X	X	X	X	X	X	X	X
.25	Roller frame and rollers	X	X					X		
.26	Track and track adjusters	X	X	X				X		
.27	Hydraulic system	X	X	X	X	X	X	X	X	X
.28	Blade and bumper	X	X		X					X

36.3 PRINCIPLES OF OPERATION - None to be discussed.

36.4 PARAMETERS

For the items listed answer the following questions:

A. What are the normal operating values and tolerances?
B. Where are the parameters sensed or monitored?
C. What is the physical location of the indicators?
D. What is the alarm setpoint?

		A	B	C	D
.41	Torque converter oil temperature	X	X	X	X
.42	Battery voltage and fluid level	X	X	X	X
.43	Engine coolant level and temperature	X	X	X	X

236.5 SYSTEM INTERFACE

.51 How does this system interface with the Salvage Equipment Sys

236.6 SAFETY PRECAUTIONS

.61 What special safety precautions apply to:

a. Jump starting
b. Operation on slopes
c. Shifting transmission while moving

237 TEST EQUIPMENT SYSTEM 237

References:

a. Construction Mechanic 3 & 2 (NAVEDTRA 10644)
b. Construction Mechanic 1 & C (NAVEDTRA 10645)
c. Manufacturers' Technical Manuals

237.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual equipment.

237.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

A. What is its function?
B. What is the source of power?
C. What are the modes of operation or control?
D. What are the safety/protective devices?

		A	B	C	D
.21	Dwell-tachometer	X	X	X	
.22	Timing light	X	X		
.23	Vacuum gauge	X			
.24	Compression gauge	X			
.25	Multimeter	X	X	X	X
.26	Megger	X			
.27	Voltmeter	X	X	X	
.28	Ammeter battery liquid	X	X		
.29	Hydrometer battery liquid	X			
.210	Hydrometer radiator liquid	X			
.211	Transistor tester	X	X	X	
.212	Battery tester	X		X	
.213	Alternator-regulator tester	X	X	X	
.214	Generator-regulator tester	X	X	X	
.215	Battery-starter tester	X		X	
.216	Growler	X		X	
.217	Torque wrench	X			
.218	Test light	X	X		

237.3 PRINCIPLES OF OPERATION - None to be discussed.

237.4 PARAMETERS - None to be discussed.

237.5 SYSTEM INTERFACE - None to be discussed.

237.6 SAFETY PRECAUTIONS - None to be discussed.

238 SPECIAL TOOLS SYSTEM

References:

a. 1/4-Ton Truck Special Tools Army Technical Manual (TM 9-2320-218-34P)
b. 1-1/4-Ton Truck Special Tools Army Technical Manua (TM 9-2320-244-20)
c. 2-1/2-Ton Truck Special Tools Army Technical Manua (TM 9-2320-244-20P)

238.1 What is the function of this system?

.11 Refer to a standard print of this system or to the act equipment.

238.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following compone and component parts:

A. What is its function?
B. Where is it located?

.21 1/4-ton and 1-1/4-ton truck toolbox
a. Bearing and bushing driver
b. Bearing and bushing drive plug
c. Protector block puller
d. Water pump puller
e. Remover and replacer shaft
f. Slide hammer puller
g. Mechanical puller
h. Front oil seal replacer
i. Mechanical puller adapter
j. Face spanner socket wrench
k. Puller protector block
l. Engine lifting sling
m. Pinion gear shaft rear bearing and seal adapter
n. Differential seal replacer
o. Expansion plug replacer
p. Clutch pilot bearing puller
q. Rear oil seal replacer
r. Timing gear and steering wheel puller
s. Shifter shaft seal replacer
t. Front output shaft seal replacer
u. Differential side bearing puller
v. Pinion gear and front bearing adapter
w. Ring rear alignment pin

g. Bearing cup replacer
h. Torque rod ball remover and replacer
i. Sleeve bearing hand burnisher
j. Mechanical puller kit
k. Bearing remover
l. Remover and replacer handle
m. Pushrod guide
n. Pushrod assembly gauge
o. Mechanical puller (pinion bearing)
p. Wheel bearing nut wrench
q. Mechanical puller adapter
r. Oil seal replacer
s. Gear replacer
t. Face spanner socket wrench
u. Puller
v. Rearing sleeve remover and replacer
w. Pressure dial indicating gauge
x. Gear replacer
y. Piston guide

.3 PRINCIPLES OF OPERATION - None to be discussed.

.4 PARAMETERS - None to be discussed.

.5 SYSTEM INTERFACE - None to be discussed.

.6 SAFETY PRECAUTIONS - None to be discussed.

FINAL QUALIFICATION AS BEACHMASTER RADIOTELEPHONE OPERATOR

____________________________________ RATE/RANK ____________

This page is to be used as a record of satisfactory completion of designated ions of the Personnel Qualification Standard (PQS). Only specified supervi- may signify completion of applicable sections either by written or oral exam- ion, or by observation of performance. The examination or checkout need not r every item; however, a sufficient number should be covered to demonstrate examinee's knowledge. Should supervisors "give away" their signatures, cessary difficulties can be expected in future routine operations.

This qualification section is to be maintained by the trainee and updated to re awareness of remaining tasks.

IFICATION

Having observed satisfactory performance, it is recommended the trainee esignated a qualified BEACHMASTER RADIOTELEPHONE OPERATOR (301).

MMENDED ________________________ DATE ____________
(Supervisor)

MMENDED ________________________ DATE ____________
(Division Officer)

MMENDED ________________________ DATE ____________
(Department Head)

IFIED ________________________ DATE ____________
(Commanding Officer)

ICE RECORD ENTRY ________________________ DATE ____________
(Personnel Officer)

BEACHMASTER RADIOTELEPHONE OPERATOR

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED ______________________________
(Training Officer/Date)

FINAL QUALIFICATION AS TEAM GUNNER'S MATE

________________________________ RATE/RANK ____________

This page is to be used as a record of satisfactory completion of designated
ions of the Personnel Qualification Standard (PQS). Only specified supervi-
may signify completion of applicable sections either by written or oral exam-
ion, or by observation of performance. The examination or checkout need not
r every item; however, a sufficient number should be covered to demonstrate
examinee's knowledge. Should supervisors "give away" their signatures,
cessary difficulties can be expected in future routine operations.

This qualification section is to be maintained by the trainee and updated to
re awareness of remaining tasks.

IFICATION

Having observed satisfactory performance, it is recommended the trainee
esignated a qualified TEAM GUNNER'S MATE (302).

MMENDED ________________________________ DATE ____________
(Supervisor)

MMENDED ________________________________ DATE ____________
(Division Officer)

MMENDED ________________________________ DATE ____________
(Department Head)

IFIED ________________________________ DATE ____________
(Commanding Officer)

ICE RECORD ENTRY ________________________________ DATE ____________
(Personnel Officer)

TEAM GUNNER'S MATE

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED ______________________
(Training Officer/Date)

FINAL QUALIFICATION AS
TEAM NUCLEAR, BIOLOGICAL, CHEMICAL (NBC) WARFARE SPECIALIST

AME____RATE/RANK____________

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This qualification section is to be maintained by the trainee and updated to nsure awareness of remaining tasks.

UALIFICATION

Having observed satisfactory performance, it is recommended the trainee e designated a qualified TEAM NUCLEAR, BIOLOGICAL, CHEMICAL (NBC) WARFARE PECIALIST (303).

ECOMMENDED____DATE____________
(Supervisor)

ECOMMENDED____DATE____________
(Division Officer)

ECOMMENDED____DATE____________
(Department Head)

UALIFIED____DATE____________
(Commanding Officer)

ERVICE RECORD ENTRY____DATE____________
(Personnel Officer)

TEAM NUCLEAR, BIOLOGICAL, CHEMICAL (NBC) WARFARE SPECIA

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED______________________________
(Training Officer/Date)

FINAL QUALIFICATION AS
TEAM DAMAGE CONTROLMAN

E____ RATE/RANK____________

This page is to be used as a record of satisfactory completion of designated tions of the Personnel Qualification Standard (PQS). Only specified supervis may signify completion of applicable sections either by written or oral examtion, or by observation of performance. The examination or checkout need not er every item; however, a sufficient number should be covered to demonstrate examinee's knowledge. Should supervisors "give away" their signatures, ecessary difficulties can be expected in future routine operations.

This qualification section is to be maintained by the trainee and updated to ure awareness of remaining tasks.

LIFICATION

Having observed satisfactory performance, it is recommended the trainee designated a qualified TEAM DAMAGE CONTROLMAN (304).

OMMENDED____ DATE_______________
(Supervisor)

OMMENDED____ DATE_______________
(Division Officer)

OMMENDED____ DATE_______________
(Department Head)

LIFIED____ DATE_______________
(Commanding Officer)

VICE RECORD ENTRY_____________________________________ DATE_______________
(Personnel Officer)

TEAM DAMAGE CONTROLMAN

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED____________________________
(Training Officer/Date)

FINAL QUALIFICATION AS
4 X 4 TRUCK (1/4-TON AND 1-1/4-TON) OPERATOR

AME ______________________________ RATE/RANK ____________

This page is to be used as a record of satisfactory completion of designated
ections of the Personnel Qualification Standard (PQS). Only specified supervi-
ors may signify completion of applicable sections either by written or oral exam-
nation, or by observation of performance. The examination or checkout need not
over every item; however, a sufficient number should be covered to demonstrate
he examinee's knowledge. Should supervisors "give away" their signatures,
nnecessary difficulties can be expected in future routine operations.

This qualification section is to be maintained by the trainee and updated to
nsure awareness of remaining tasks.

- -

UALIFICATION

Having observed satisfactory performance, it is recommended the trainee
e designated a qualified 4 X 4 TRUCK (1/4-TON AND 1-1/4-TON) OPERATOR (305).

ECOMMENDED ______________________________ DATE ____________
(Supervisor)

ECOMMENDED ______________________________ DATE ____________
(Division Officer)

ECOMMENDED ______________________________ DATE ____________
(Department Head)

JALIFIED ______________________________ DATE ____________
(Commanding Officer)

ERVICE RECORD ENTRY ______________________________ DATE ____________
(Personnel Officer)

4 X 4 TRUCK (1/4-TON AND 1-1/4-TON) OPERATOR

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED______________________
(Training Officer/Date)

FINAL QUALIFICATION AS
6 X 6 TRUCK (2-1/2-TON) OPERATOR

________________ RATE/RANK ________

s page is to be used as a record of satisfactory completion of designated
s of the Personnel Qualification Standard (PQS). Only specified supervi-
y signify completion of applicable sections either by written or oral exam-
, or by observation of performance. The examination or checkout need not
very item; however, a sufficient number should be covered to demonstrate
minee's knowledge. Should supervisors "give away" their signatures,
sary difficulties can be expected in future routine operations.

s qualification section is to be maintained by the trainee and updated to
awareness of remaining tasks.

CATION

ing observed satisfactory performance, it is recommended the trainee
gnated a qualified 6 X 6 TRUCK (2-1/2-TON) OPERATOR (306).

NDED ________________ DATE ________
(Supervisor)

NDED ________________ DATE ________
(Division Officer)

NDED ________________ DATE ________
(Department Head)

ED ________________ DATE ________
(Commanding Officer)

RECORD ENTRY ________________ DATE ________
(Personnel Officer)

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED______________________________
(Training Officer/Date)

4 X 4 TRUCK (1/4-TON AND 1-1/4-TON) OPERATOR (NAVEDTRA 43248A-Q5)

COMPLETED______________________________
(Department Head/Date)

FINAL QUALIFICATION AS
TEAM TRUCK MECHANIC

________________________________ RATE/RANK ____________

This page is to be used as a record of satisfactory completion of designated
ions of the Personnel Qualification Standard (PQS). Only specified supervi-
may signify completion of applicable sections either by written or oral exam-
ion, or by observation of performance. The examination or checkout need not
r every item; however, a sufficient number should be covered to demonstrate
examinee's knowledge. Should supervisors "give away" their signatures,
cessary difficulties can be expected in future routine operations.

This qualification section is to be maintained by the trainee and updated to
re awareness of remaining tasks.

- -

IFICATION

Having observed satisfactory performance, it is recommended the trainee
esignated a qualified TEAM TRUCK MECHANIC (307).

MMENDED ________________________________ DATE ____________
(Supervisor)

MMENDED ________________________________ DATE ____________
(Division Officer)

MMENDED ________________________________ DATE ____________
(Department Head)

IFIED ________________________________ DATE ____________
(Commanding Officer)

ICE RECORD ENTRY ________________________________ DATE ____________
(Personnel Officer)

TEAM TRUCK MECHANIC

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED________________________________
(Training Officer/Date)

FINAL QUALIFICATION AS
LARC-V SUPPORT HEADQUARTERS MECHANIC

RATE/RANK______________

page is to be used as a record of satisfactory completion of designated of the Personnel Qualification Standard (PQS). Only specified supervi- signify completion of applicable sections either by written or oral exam- or by observation of performance. The examination or checkout need not ery item; however, a sufficient number should be covered to demonstrate inee's knowledge. Should supervisors "give away" their signatures, ary difficulties can be expected in future routine operations.

qualification section is to be maintained by the trainee and updated to wareness of remaining tasks.

- -

ATION

ng observed satisfactory performance, it is recommended the trainee nated a qualified LARC-V SUPPORT HEADQUARTERS MECHANIC (308).

DED______________________________ DATE______________
(Supervisor)

DED______________________________ DATE______________
(Division Officer)

DED______________________________ DATE______________
(Department Head)

D______________________________ DATE______________
(Commanding Officer)

RECORD ENTRY______________________________ DATE______________
(Personnel Officer)

LARC-V SUPPORT HEADQUARTERS MECHANIC

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED______________________________
(Training Officer/Date)

FINAL QUALIFICATION AS
D-8K TRACTOR OPERATOR

NAME ______________________________ RATE/RANK __________

This page is to be used as a record of satisfactory completion of desig sections of the Personnel Qualification Standard (PQS). Only specified sup sors may signify completion of applicable sections either by written or ora ination, or by observation of performance. The examination or checkout nee cover every item; however, a sufficient number should be covered to demonst the examinee's knowledge. Should supervisors "give away" their signatures, unnecessary difficulties can be expected in future routine operations.

This qualification section is to be maintained by the trainee and updat ensure awareness of remaining tasks.

QUALIFICATION

Having observed satisfactory performance, it is recommended the trainee be designated a qualified D-8K TRACTOR OPERATOR (309).

RECOMMENDED ______________________________ DATE __________
(Supervisor)

RECOMMENDED ______________________________ DATE __________
(Division Officer)

RECOMMENDED ______________________________ DATE __________
(Department Head)

QUALIFIED ______________________________ DATE __________
(Commanding Officer)

SERVICE RECORD ENTRY ______________________________ DATE __________
(Personnel Officer)

D-8K TRACTOR OPERATOR

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED ______________________________
(Training Officer/Date)

FINAL QUALIFICATION AS
DUTY RADIOMAN

NAME ______________________ RATE/RANK __________

This page is to be used as a record of satisfactory completion of designated sections of the Personnel Qualification Standard (PQS). Only specified supervisors may signify completion of applicable sections either by written or oral exa ination, or by observation of performance. The examination or checkout need not cover every item; however, a sufficient number should be covered to demonstrate the examinee's knowledge. Should supervisors "give away" their signatures, unnecessary difficulties can be expected in future routine operations.

This qualification section is to be maintained by the trainee and updated to ensure awareness of remaining tasks.

QUALIFICATION

Having observed satisfactory performance, it is recommended the trainee be designated a qualified DUTY RADIOMAN (310).

RECOMMENDED ______________________ DATE __________
(Supervisor)

RECOMMENDED ______________________ DATE __________
(Division Officer)

RECOMMENDED ______________________ DATE __________
(Department Head)

QUALIFIED ______________________ DATE __________
(Commanding Officer)

SERVICE RECORD ENTRY ______________________ DATE __________
(Personnel Officer)

DUTY RADIOMAN

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED______________________________
(Training Officer/Date)

BEACHMASTER RADIOTELEPHONE OPERATOR (NAVEDTRA 43248A-Q1)

COMPLETED______________________________
(Department Head/Date)

FINAL QUALIFICATION AS
TEAM MEMBER

NAME____ RATE/RANK____________

This page is to be used as a record of satisfactory completion of designated sections of the Personnel Qualification Standard (PQS). Only specified supervisors may signify completion of applicable sections either by written or oral exa ination, or by observation of performance. The examination or checkout need not cover every item; however, a sufficient number should be covered to demonstrate the examinee's knowledge. Should supervisors "give away" their signatures, unnecessary difficulties can be expected in future routine operations.

This qualification section is to be maintained by the trainee and updated to ensure awareness of remaining tasks.

QUALIFICATION

Having observed satisfactory performance, it is recommended the trainee be designated a qualified TEAM MEMBER (311).

RECOMMENDED__________________________________ DATE____________
(Supervisor)

RECOMMENDED__________________________________ DATE____________
(Division Officer)

RECOMMENDED__________________________________ DATE____________
(Department Head)

QUALIFIED____________________________________ DATE____________
(Commanding Officer)

SERVICE RECORD ENTRY___________________________ DATE____________
(Personnel Officer)

TEAM MEMBER

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED______________________________
(Training Officer/Date)

6 X 6 TRUCK (2-1/2-TON) OPERATOR (NAVEDTRA 43248A-Q6)

COMPLETED______________________________
(Department Head/Date)

FINAL QUALIFICATION AS
TRAFFIC CONTROLMAN

RATE/RANK______________

s page is to be used as a record of satisfactory completion of designated
s of the Personnel Qualification Standard (PQS). Only specified supervi-
y signify completion of applicable sections either by written or oral exam-
, or by observation of performance. The examination or checkout need not
very item; however, a sufficient number should be covered to demonstrate
minee's knowledge. Should supervisors "give away" their signatures,
sary difficulties can be expected in future routine operations.

s qualification section is to be maintained by the trainee and updated to
awareness of remaining tasks.

- -

CATION

ing observed satisfactory performance, it is recommended the trainee
gnated a qualified TRAFFIC CONTROLMAN (312).

NDED____ DATE______________
(Supervisor)

NDED____ DATE______________
(Division Officer)

NDED____ DATE______________
(Department Head)

ED____ DATE______________
(Commanding Officer)

RECORD ENTRY_________________________________ DATE______________
(Personnel Officer)

TRAFFIC CONTROLMAN

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED______________________________
(Training Officer/Date)

TEAM MEMBER (NAVEDTRA 43248A-Q11)

COMPLETED______________________________
(Department Head/Date)

FINAL QUALIFICATION AS
BEACH PARTY TEAM RADIOMAN

NAME____RATE/RANK____________

This page is to be used as a record of satisfactory completion of designate sections of the Personnel Qualification Standard (PQS). Only specified supervi sors may signify completion of applicable sections either by written or oral ex ination, or by observation of performance. The examination or checkout need no cover every item; however, a sufficient number should be covered to demonstrate the examinee's knowledge. Should supervisors "give away" their signatures, unnecessary difficulties can be expected in future routine operations.

This qualification section is to be maintained by the trainee and updated t ensure awareness of remaining tasks.

QUALIFICATION

Having observed satisfactory performance, it is recommended the trainee be designated a qualified BEACH PARTY TEAM RADIOMAN (313).

RECOMMENDED____DATE____________
(Supervisor)

RECOMMENDED____DATE____________
(Division Officer)

RECOMMENDED____DATE____________
(Department Head)

QUALIFIED____DATE____________
(Commanding Officer)

SERVICE RECORD ENTRY____________________________________DATE____________
(Personnel Officer)

BEACH PARTY TEAM RADIOMAN

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED________________________________
(Training Officer/Date)

TEAM MEMBER (NAVEDTRA 43248A-Q11)

COMPLETED________________________________
(Department Head/Date)

FINAL QUALIFICATION AS BEACH PARTY GROUP RADIOMAN

______________________________ RATE/RANK __________

This page is to be used as a record of satisfactory completion of designated ions of the Personnel Qualification Standard (PQS). Only specified supervi- may signify completion of applicable sections either by written or oral examion, or by observation of performance. The examination or checkout need not r every item; however, a sufficient number should be covered to demonstrate examinee's knowledge. Should supervisors "give away" their signatures, cessary difficulties can be expected in future routine operations.

This qualification section is to be maintained by the trainee and updated to re awareness of remaining tasks.

IFICATION

Having observed satisfactory performance, it is recommended the trainee esignated a qualified BEACH PARTY GROUP RADIOMAN (314).

MMENDED ______________________________ DATE __________
(Supervisor)

MMENDED ______________________________ DATE __________
(Division Officer)

MMENDED ______________________________ DATE __________
(Department Head)

IFIED ______________________________ DATE __________
(Commanding Officer)

ICE RECORD ENTRY ______________________________ DATE __________
(Personnel Officer)

BEACH PARTY GROUP RADIOMAN

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED______________________________
(Training Officer/Date)

BEACH PARTY TEAM RADIOMAN (NAVEDTRA 43248A-Q13)

COMPLETED______________________________
(Department Head/Date)

FINAL QUALIFICATION AS
CAMP SUPPORT PETTY OFFICER

_______________________________ RATE/RANK ____________

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ions of the Personnel Qualification Standard (PQS). Only specified supervi-
may signify completion of applicable sections either by written or oral exam-
ion, or by observation of performance. The examination or checkout need not
r every item; however, a sufficient number should be covered to demonstrate
examinee's knowledge. Should supervisors "give away" their signatures,
cessary difficulties can be expected in future routine operations.

This qualification section is to be maintained by the trainee and updated to
re awareness of remaining tasks.

IFICATION

Having observed satisfactory performance, it is recommended the trainee
esignated a qualified CAMP SUPPORT PETTY OFFICER (315).

MMENDED ______________________________ DATE ____________
(Supervisor)

MMENDED ______________________________ DATE ____________
(Division Officer)

MMENDED ______________________________ DATE ____________
(Department Head)

IFIED ______________________________ DATE ____________
(Commanding Officer)

ICE RECORD ENTRY ______________________________ DATE ____________
(Personnel Officer)

CAMP SUPPORT PETTY OFFICER

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED______________________________
(Training Officer/Date)

TEAM MEMBER (NAVEDTRA 43248A-Q11)

COMPLETED______________________________
(Department Head/Date)

FINAL QUALIFICATION AS
TEAM SIGNALMAN

______________________________ RATE/RANK ____________

This page is to be used as a record of satisfactory completion of designated
ions of the Personnel Qualification Standard (PQS). Only specified supervi-
may signify completion of applicable sections either by written or oral exam-
ion, or by observation of performance. The examination or checkout need not
r every item; however, a sufficient number should be covered to demonstrate
examinee's knowledge. Should supervisors "give away" their signatures,
cessary difficulties can be expected in future routine operations.

This qualification section is to be maintained by the trainee and updated to
re awareness of remaining tasks.

- -

IFICATION

Having observed satisfactory performance, it is recommended the trainee
esignated a qualified TEAM SIGNALMAN (316).

MMENDED ______________________________ DATE ____________
(Supervisor)

MMENDED ______________________________ DATE ____________
(Division Officer)

MMENDED ______________________________ DATE ____________
(Department Head)

IFIED ______________________________ DATE ____________
(Commanding Officer)

ICE RECORD ENTRY ______________________________ DATE ____________
(Personnel Officer)

TEAM SIGNALMAN

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED________________________________
(Training Officer/Date)

TEAM MEMBER (NAVEDTRA 43248A-Q11)

COMPLETED________________________________
(Department Head/Date)

FINAL QUALIFICATION AS
LARC-V CREWMEMBER

______________________________ RATE/RANK __________

This page is to be used as a record of satisfactory completion of designated ions of the Personnel Qualification Standard (PQS). Only specified supervi- may signify completion of applicable sections either by written or oral exam- ion, or by observation of performance. The examination or checkout need not r every item; however, a sufficient number should be covered to demonstrate examinee's knowledge. Should supervisors "give away" their signatures, cessary difficulties can be expected in future routine operations.

This qualification section is to be maintained by the trainee and updated to re awareness of remaining tasks.

IFICATION

Having observed satisfactory performance, it is recommended the trainee esignated a qualified LARC-V CREWMEMBER (317).

MMENDED ______________________________ DATE __________
(Supervisor)

MMENDED ______________________________ DATE __________
(Division Officer)

MMENDED ______________________________ DATE __________
(Department Head)

IFIED ______________________________ DATE __________
(Commanding Officer)

ICE RECORD ENTRY ______________________________ DATE __________
(Personnel Officer)

LARC-V CREWMEMBER

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED______________________________
(Training Officer/Date)

BEACHMASTER RADIOTELEPHONE OPERATOR (NAVEDTRA 43248A-Q1)

COMPLETED______________________________
(Department Head/Date)

TEAM MEMBER (NAVEDTRA 43248A-Q11)

COMPLETED______________________________
(Department Head/Date)

FINAL QUALIFICATION AS
LARC-V ENGINEER

NAME____RATE/RANK________

This page is to be used as a record of satisfactory completion of designat
sections of the Personnel Qualification Standard (PQS). Only specified superv
sors may signify completion of applicable sections either by written or oral e
ination, or by observation of performance. The examination or checkout need n
cover every item; however, a sufficient number should be covered to demonstrat
the examinee's knowledge. Should supervisors "give away" their signatures,
unnecessary difficulties can be expected in future routine operations.

This qualification section is to be maintained by the trainee and updated
ensure awareness of remaining tasks.

QUALIFICATION

Having observed satisfactory performance, it is recommended the trainee be designated a qualified LARC-V ENGINEER (318).

RECOMMENDED____DATE________
(Supervisor)

RECOMMENDED____DATE________
(Division Officer)

RECOMMENDED____DATE________
(Department Head)

QUALIFIED____DATE________
(Commanding Officer)

SERVICE RECORD ENTRY_________________________________DATE________
(Personnel Officer)

LARC-V ENGINEER

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED______________________
(Training Officer/Date)

LARC-V CREWMEMBER (NAVEDTRA 43248A-Q17)

COMPLETED______________________
(Department Head/Date)

FINAL QUALIFICATION AS
LARC-V COMMANDER

____RATE/RANK_______________

his page is to be used as a record of satisfactory completion of designated
ons of the Personnel Qualification Standard (PQS). Only specified supervi-
may signify completion of applicable sections either by written or oral exam-
on, or by observation of performance. The examination or checkout need not
every item; however, a sufficient number should be covered to demonstrate
xaminee's knowledge. Should supervisors "give away" their signatures,
essary difficulties can be expected in future routine operations.

his qualification section is to be maintained by the trainee and updated to
e awareness of remaining tasks.

FICATION

aving observed satisfactory performance, it is recommended the trainee
signated a qualified LARC-V COMMANDER (319).

MENDED____DATE_______________
(Supervisor)

MENDED____DATE_______________
(Division Officer)

MENDED____DATE_______________
(Department Head)

FIED____DATE_______________
(Commanding Officer)

CE RECORD ENTRY______________________________________DATE_______________
(Personnel Officer)

LARC-V COMMANDER

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED______________________________
(Training Officer/Date)

LARC-V ENGINEER (NAVEDTRA 43248A-Q18)

COMPLETED______________________________
(Department Head/Date)

FINAL QUALIFICATION AS
FLANK PETTY OFFICER

______________________________RATE/RANK__________

is page is to be used as a record of satisfactory completion of designated
ns of the Personnel Qualification Standard (PQS). Only specified supervi-
ay signify completion of applicable sections either by written or oral exam-
n, or by observation of performance. The examination or checkout need not
every item; however, a sufficient number should be covered to demonstrate
aminee's knowledge. Should supervisors "give away" their signatures,
ssary difficulties can be expected in future routine operations.

is qualification section is to be maintained by the trainee and updated to
awareness of remaining tasks.

ICATION

ving observed satisfactory performance, it is recommended the trainee
ignated a qualified FLANK PETTY OFFICER (320).

ENDED______________________________DATE__________
(Supervisor)

ENDED______________________________DATE__________
(Division Officer)

ENDED______________________________DATE__________
(Department Head)

IED______________________________DATE__________
(Commanding Officer)

E RECORD ENTRY______________________________DATE__________
(Personnel Officer)

FLANK PETTY OFFICER

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED____________________________
(Training Officer/Date)

D-8K TRACTOR OPERATOR (NAVEDTRA 43248A-Q9)

COMPLETED____________________________
(Department Head/Date)

LARC-V COMMANDER (NAVEDTRA 43248A-Q19)

COMPLETED____________________________
(Department Head/Date)

FINAL QUALIFICATION AS SALVAGE PETTY OFFICER

RATE/RANK

s page is to be used as a record of satisfactory completion of designated
s of the Personnel Qualification Standard (PQS). Only specified supervi-
y signify completion of applicable sections either by written or oral exam-
, or by observation of performance. The examination or checkout need not
very item; however, a sufficient number should be covered to demonstrate
inee's knowledge. Should supervisors "give away" their signatures,
sary difficulties can be expected in future routine operations.

s qualification section is to be maintained by the trainee and updated to
awareness of remaining tasks.

- -

CATION

ing observed satisfactory performance, it is recommended the trainee
gnated a qualified SALVAGE PETTY OFFICER (321).

NDED ______________________ DATE __________
(Supervisor)

NDED ______________________ DATE __________
(Division Officer)

NDED ______________________ DATE __________
(Department Head)

ED ______________________ DATE __________
(Commanding Officer)

RECORD ENTRY ______________________ DATE __________
(Personnel Officer)

SALVAGE PETTY OFFICER

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED ______________________________
(Training Officer/Date)

FLANK PETTY OFFICER (NAVEDTRA 43248A-Q20)

COMPLETED ______________________________
(Department Head/Date)

FINAL QUALIFICATION AS
SALVAGE OFFICER

RATE/RANK__________

is page is to be used as a record of satisfactory completion of designated
ns of the Personnel Qualification Standard (PQS). Only specified supervi-
ay signify completion of applicable sections either by written or oral exam-
n, or by observation of performance. The examination or checkout need not
every item; however, a sufficient number should be covered to demonstrate
aminee's knowledge. Should supervisors "give away" their signatures,
ssary difficulties can be expected in future routine operations.

is qualification section is to be maintained by the trainee and updated to
awareness of remaining tasks.

- -

ICATION

ving observed satisfactory performance, it is recommended the trainee
ignated a qualified SALVAGE OFFICER (322).

ENDED____________________ DATE__________
(Supervisor)

ENDED____________________ DATE__________
(Division Officer)

ENDED____________________ DATE__________
(Department Head)

IED____________________ DATE__________
(Commanding Officer)

E RECORD ENTRY____________________ DATE__________
(Personnel Officer)

SALVAGE OFFICER

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED______________________________
(Training Officer/Date)

SALVAGE PETTY OFFICER (NAVEDTRA 43248A-Q21)

COMPLETED______________________________
(Department Head/Date)

FINAL QUALIFICATION AS
BEACH PARTY TEAM COMMANDER/ASSISTANT COMMANDER

RATE/RANK ______________

is page is to be used as a record of satisfactory completion of designated ns of the Personnel Qualification Standard (PQS). Only specified supervi- ay signify completion of applicable sections either by written or oral exam- n, or by observation of performance. The examination or checkout need not every item; however, a sufficient number should be covered to demonstrate aminee's knowledge. Should supervisors "give away" their signatures, ssary difficulties can be expected in future routine operations.

is qualification section is to be maintained by the trainee and updated to awareness of remaining tasks.

ICATION

ving observed satisfactory performance, it is recommended the trainee ignated a qualified BEACH PARTY TEAM COMMANDER/ASSISTANT COMMANDER (323).

ENDED ______________________________ DATE ______________
(Supervisor)

ENDED ______________________________ DATE ______________
(Division Officer)

ENDED ______________________________ DATE ______________
(Department Head)

IED ______________________________ DATE ______________
(Commanding Officer)

E RECORD ENTRY ______________________________ DATE ______________
(Personnel Officer)

BEACH PARTY TEAM COMMANDER/ASSISTANT COMMANDER

QUALIFICATION SUMMARY

ATION

er/Date)

3248A-Q22)

ad/Date)

Before starting your assigned tasks, complete the following items:

Fundamentals: 101, 105, 116 (15% of watchstation)

Systems: 224, 225 (15% of watchstation)

TASKS

For the tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What communications must be established?
E. What parameters must be monitored?
F. What safety precautions must be observed?
G. Perform this task.

	A	B	C	D	E	F	G
Read unit three in radiotelephone user's manual	X	X					X

(Signature) (Date)

2 Set up and operate AN/PRC-25	X	X	X	X	X	X	X

(Signature) (Date)

3 Set up and operate AN/PRC-77	X	X	X	X	X	X	X

(Signature) (Date)

4 Set up and operate AN/VRC-46	X	X	X	X	X	X	X

(Signature) (Date)

5 Establish communications with net control on beachmaster administration nets	X	X	X	X			X

(Signature) (Date)

Completion of .1 area comprises 35% of watchstation.

INFREQUENT TASKS

For the infrequent tasks listed below:

D. What communications must be established?
E. What conditions require this infrequent task?
F. Perform or simulate this task.

.21 Operate waterproofed AN/PRC-27/77

____
(Signature) (Date)

.22 Operate AN/PRC-27/77 using AN/VRC-46 antenna system

____
(Signature) (Date)

Completion of .2 area comprises 15% of watchstation.

301.3 ABNORMAL CONDITIONS

For the abnormal conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. What emergencies or malfunctions may occur if immediate ac
not taken?
F. How does this condition affect other operations/equipment/
watchstations?
G. What followup action is required?
H. Perform or simulate the corrective/immediate action for th
abnormal condition.

	A	B	C	D
.31 Frayed/worn wiring	X	X	X	X
______________________________ (Signature) (Date)				
.32 Improper/dirty radio connections	X	X	X	X
______________________________ (Signature) (Date)				
.33 Excessive moisture	X	X		X
______________________________ (Signature) (Date)				
.34 Submergence	X	X		X
______________________________ (Signature) (Date)				

1.3 ABNORMAL CONDITIONS (CONT'D)

		A	B	C	D	E	F	G	H
.35	Power loss/inoperative AN/PRC-25/77	X	X	X	X	X	X	X	X

(Signature) (Date)

		A	B	C	D	E	F	G	H
.36	Power loss/inoperative AN/VRC-46	X	X	X	X	X	X	X	X

(Signature) (Date)

Completion of .3 area comprises 20% of watchstation.

1.4 EMERGENCIES - None to be discussed.

1.5 WATCHES - None.

WATCHSTATION - TEAM GUNNER'S MATE 302

Estimated completion time: 2 weeks

Before starting your assigned tasks, complete the following items:

Fundamentals: 101, 116 (5% of watchstation)

Systems: 201 thru 206, 222 (30% of watchstation)

TASKS

For the tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What safety precautions must be observed?
E. What parameters must be monitored?
F. Perform this task.

Inspect the M-203 grenade launcher

(Signature) (Date)

2 Inspect the M-16 rifle

(Signature) (Date)

3 Inspect the .45-caliber pistol

(Signature) (Date)

4 Inspect the M-60 machinegun

(Signature) (Date)

5 Supervise and assist storage of weapons and ammunition

(Signature) (Date)

6 Supervise individual issue of weapons

(Signature) (Date)

.18 Inspect MK 5 Very pistol

(Signature) (Date)

.19 Maintain inventory of all types of ammunition

(Signature) (Date)

Completion of .1 area comprises 40% of watchstation.

302.2 INFREQUENT TASKS

For the infrequent tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What safety precautions must be observed?
D. What conditions require this infrequent task?
E. Perform or simulate this task.

.21 Replace worn/broken firing pin

(Signature) (Date)

.22 Replace weak or broken firing pin spring

(Signature) (Date)

.23 Replace worn barrel

(Signature) (Date)

.24 Replace broken extractor

(Signature) (Date)

.25 Replace broken ejector

(Signature) (Date)

.26 Replace weak or broken recoil spring

(Signature) (Date)

2 INFREQUENT TASKS (CONT'D)

27 Replace weak or broken magazine spring

(Signature) (Date)

Completion of .2 area comprises 20% of watchstation.

3 ABNORMAL CONDITIONS

For the abnormal conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. What emergencies or malfunctions may occur if immediate action is not taken?
F. How does this condition affect other operations/equipment/watchstations?
G. What followup action is required?
H. Perform or simulate the corrective/immediate action for this abnormal condition.

31 Runaway firing of M-60 machinegun

(Signature) (Date)

32 Faulty ammunition

(Signature) (Date)

Completion of .3 area comprises 5% of watchstation.

4 EMERGENCIES - None to be discussed.

5 WATCHES - None.

WATCHSTATION - TEAM NUCLEAR, BIOLOGICAL, CHEMICAL (NBC) WARFARE SPECIALIST

Estimated completion time: 3 weeks

Before starting your assigned tasks, complete the following items:

Fundamentals: 101, 113, 116 (10% of watchstation)

Systems: 210 thru 213 (35% of watchstation)

TASKS

For the tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. Perform this task.

Maintain, inventory, and issue all assigned NBC equipage and protective clothing

(Signature) (Date)

Train personnel to use NBC detection devices

(Signature) (Date)

Train personnel to use chemical defense items

(Signature) (Date)

Completion of .1 area comprises 45% of watchstation.

INFREQUENT TASKS

For the infrequent tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What safety precautions must be observed?
E. What parameters must be monitored?
F. What conditions require this infrequent task?
G. Perform or simulate this task.

Dispose of contaminated clothing

303.2 INFREQUENT TASKS (CONT'D)

.22 Decontaminate contaminated equipment

(Signature) (Date)

Completion of .2 area comprises 5% of watchstation.

303.3 ABNORMAL CONDITIONS - None to be discussed.

303.4 EMERGENCIES

For the emergency conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. What other emergencies or malfunctions may occur if immediate action is not taken?
F. How does this emergency affect other operations/equipment?

.41 NBC attack

(Signature) (Date)

Completion of .4 area comprises 5% of watchstation.

303.5 WATCHES - None.

fore starting your assigned tasks, complete the following items:

Schools: P-250 Repair Course (A-495-2037)

Fundamentals: 101, 107, 116 (5% of watchstation)

Systems: 214 thru 216 (15% of watchstation)

SKS

r the tasks listed below:

What are the steps of this procedure?
What are the reasons for each step?
What parameters must be monitored?
What safety precautions must be observed?
Perform this task.

	A	B	C	D	E
g, operate, and secure a P-250 pump	X	X	X	X	X
ignature) (Date)					
ljust and replace spark plugs	X	X	X		X
ignature) (Date)					
eplace and adjust breaker points	X	X	X		X
ignature) (Date)					
eplace condenser	X	X			X
ignature) (Date)					
eplace ignition coils	X	X			X
ignature) (Date)					
ljust carburetor	X	X	X		X
ignature) (Date)					

304.1 TASKS (CONT'D)

A B

.17 Adjust engine timing X X

(Signature) (Date)

.18 Flush fuel system X X

(Signature) (Date)

.19 Adjust pressure regulator X X X

(Signature) (Date)

.110 Set up, operate, and secure a propane torch kit X X X

(Signature) (Date)

Completion of .1 area comprises 40% of watchstation.

304.2 INFREQUENT TASKS

For the infrequent tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What safety precautions must be observed?
D. What conditions require this infrequent task?
E. Perform or simulate this task.

A B C

.21 Overhaul P-250 components X X

(Signature) (Date)

.22 Make a patch on a pipe using a plastic pipe kit X X X

(Signature) (Date)

.23 Make a patch on a boat using a boat repair kit (T-patch/DC plug and oakum) X X X

(Signature) (Date)

Completion of .2 area comprises 25% of watchstation.

For the abnormal conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. What emergencies or malfunctions may occur if immediate action is not taken?
F. What followup action is required?
G. Perform or simulate the corrective/immediate action for this abnormal condition.

		A	B	C	D	E	F	G
.31	Pumping contaminated liquids with the P-250 pump	X	X		X	X	X	X

(Signature) (Date)

.32	Overspeeding of the P-250 engine	X	X	X	X	X	X	X

(Signature) (Date)

.33	Decreasing pump discharge pressure of the P-250	X	X	X	X	X	X	X

(Signature) (Date)

.34	Cavitation on the P-250	X	X	X	X	X	X	X

(Signature) (Date)

Completion of .3 area comprises 10% of watchstation.

304.4 EMERGENCIES

For the emergency conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. What other emergencies or malfunctions may occur if immediate action is not taken?
F. How does this emergency affect other operations/equipment/watchstations?
G. Perform or simulate the immediate action for this emergency condition.

.41 Failure of the P-250 pump

304.5 WATCHES - None.

TCHSTATION - 4 X 4 TRUCK (1/4-TON AND 1-1/4-TON) OPERATOR 305

timated completion time: 1 week

fore starting your assigned tasks, complete the following items:

Fundamentals: 106, 116 (10% of watchstation)

Systems: 231 thru 233 (15% of watchstation)

SKS

What are the steps of this procedure?
What are the reasons for each step?
What safety precautions must be observed?
Perform this task.

	A	B	C	D
e-operational inspection	X	X		X
ignature) (Date)				
eck out vehicle from dispatcher	X	X		X
ignature) (Date)				
mplete trip ticket and hard card	X	X		X
ignature) (Date)				
sure Standard Form 91 (operator's accident report) with vehicle	X	X		X
ignature) (Date)				
art and warm up engine	X	X	X	X
ignature) (Date)				
erate 1/4-ton truck in two-wheel drive	X	X	X	X
ignature) (Date)				
erate 1-1/4-ton truck in two-wheel drive	X	X	X	X

(Signature) (Date)				
.19 Operate 1-1/4-ton truck in four-wheel drive in high range	X	X	X	X
(Signature) (Date)				
.110 Operate 1-1/4-ton truck in four-wheel drive in low range	X	X	X	X
(Signature) (Date)				
.111 Connect to trailer and tow	X	X	X	X
(Signature) (Date)				
.112 Back down with trailer attached	X	X	X	X
(Signature) (Date)				
.113 Normal shutdown	X	X		X
(Signature) (Date)				
.114 Post-operational inspection	X	X		X
(Signature) (Date)				
.115 Operate battle light switches	X	X		X
(Signature) (Date)				
.116 Operate windshield wipers in 1/4-ton truck	X	X		X
(Signature) (Date)				
.117 Operate windshield wipers in 1-1/4-ton truck	X	X		X
(Signature) (Date)				

Completion of 1 area comprises 40% of watchstation

305.2 INFREQUENT TASKS

For the infrequent tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. Perform or simulate this task.

.21 Prepare vehicle for deepwater fording

(Signature) (Date)

.22 Start during cold weather

(Signature) (Date)

.23 Connect slave cable

(Signature) (Date)

.24 Store vehicle aboard ship or boat

(Signature) (Date)

Completion of .2 area comprises 10% of watchstation.

305.3 ABNORMAL CONDITIONS

For the abnormal conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. What emergencies or malfunctions may occur if immediate action is not taken?
F. What followup action is required?
G. Perform or simulate the corrective/immediate action for this abnormal condition.

.31 Low engine oil pressure

(Signature) (Date)

.32 High engine temperature

305.3 ABNORMAL CONDITIONS (CONT'D)

.33 Low tire pressure

(Signature) (Date)

.34 Low voltage reading

(Signature) (Date)

.35 Excessive noise and/or vibrations

(Signature) (Date)

.36 Unusual odors or fumes

(Signature) (Date)

.37 Operation on rough terrain

(Signature) (Date)

Completion of .3 area comprises 15% of watchstation.

305.4 EMERGENCIES

For the emergency conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. What other emergencies or malfunctions may occur if immedia action is not taken?
F. How does this emergency affect other operations/equipment/ watchstations?
G. Perform or simulate the immediate action for this emergency condition.

.41 Flat tire

(Signature) (Date)

.42 Brake failure

305.4 EMERGENCIES (CONT'D)

.43 Steering failure

(Signature) (Date)

.44 Loss of electrical power

(Signature) (Date)

.45 Sharp cornering of 1/4-ton truck at speed over 20 mph

(Signature) (Date)

Completion of .4 area comprises 10% of watchstation.

305.5 WATCHES - None.

Estimated Completion Time: 1 Week

Before starting your assigned tasks, complete the following items:

PQS Qualification: NAVEDTRA 43248A-Q5

System: 234 (15% of watchstation)

.1 TASKS

For the tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What parameters must be monitored?
E. What safety precautions must be observed?
F. Perform this task.

		A	B	C	D	E	F
.11	Check out vehicle from dispatcher	X	X	X			X
	(Signature) (Date)						
.12	Pre-operational inspection	X	X				X
	(Signature) (Date)						
.13	Complete trip ticket and hard card	X	X	X			X
	(Signature) (Date)						
.14	Ensure Standard Form 91 (operator's accident report) is with vehicle	X	X				X
	(Signature) (Date)						
.15	Start and warm up engine	X	X		X		X
	(Signature) (Date)						
.16	Operate vehicle in high range	X	X		X	X	X
	(Signature) (Date)						
.17	Operate vehicle in low range in all wheel drive	X	X		X	X	X

.18 Connect electric and air supply to trailer X X X X

(Signature) (Date)

.19 Tow/back trailer straight and around a corner X X X X X

(Signature) (Date)

.110 Operate windshield wipers X X X

(Signature) (Date)

.111 Drain condensation from air supply tanks X X X

(Signature) (Date)

.112 Normal shutdown operation for diesel engine X X X

(Signature) (Date)

.113 Post-operational inspection X X X

(Signature) (Date)

Completion of .1 area comprises 45% of watchstation.

306.2 INFREQUENT TASKS

For the infrequent tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What safety precautions must be observed?
D. What conditions require this infrequent task?
E. Perform or simulate this task.

A B C D E

.21 Prepare vehicle for deepwater fording X X X X X

(Signature) (Date)

.22 Start during cold weather X X X X X

(Signature) (Date)

	(Signature) (Date)					
24	Connect slave cable	X	X		X	X
	(Signature) (Date)					
25	Use installed winch	X	X	X	X	X
	(Signature) (Date)					
26	Install dual tire chains	X	X	X	X	X
	(Signature) (Date)					
27	Tow stalled/stranded vehicle	X	X	X		X
	(Signature) (Date)					
28	Use auxiliary air supply system and hoses	X	X	X		X
	(Signature) (Date)					
29	Change flat tire	X	X	X		X
	(Signature) (Date)					

Completion of .2 area comprises 10% of watchstation.

3 ABNORMAL CONDITIONS

For the abnormal conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. What emergencies or malfunctions may occur if immediate action is not taken?
F. What followup action is required?
G. Perform or simulate the corrective/immediate action for this abnormal condition.

31 Low engine oil pressure

306.3 ABNORMAL CONDITIONS (CONT'D)

.32 High engine temperature

(Signature) (Date)

.33 Low air supply pressure

(Signature) (Date)

.34 Low voltage reading

(Signature) (Date)

.35 Excessive noise and/or vibrations

(Signature) (Date)

.36 Low tire pressure

(Signature) (Date)

.37 High tire pressure

(Signature) (Date)

.38 Unusual odors or fumes

(Signature) (Date)

.39 Flat tire on rear

(Signature) (Date)

.310 Stuck in sand or mud

(Signature) (Date)

Completion of .3 area comprises 20% of watchstation.

306.4 EMERGENCIES

.4 EMERGENCIES (CONT'D)

E. What other emergencies or malfunctions may occur if immediate action is not taken?

F. Perform or simulate the immediate action for this emergency condition.

.41 Flat tire on front

(Signature) (Date)

.42 Steering failure

(Signature) (Date)

.43 Loss of air pressure on trailer

(Signature) (Date)

.44 Brake failure due to loss of air supply or water on brakes

(Signature) (Date)

Completion of .4 area comprises 10% of watchstation.

.5 WATCHES - None.

Estimated completion time: 6 weeks

Before starting your assigned tasks, complete the following items:

Fundamentals: 101, 106 thru 112, 115, 116 (10% of watchstation)

Systems: 231 thru 234, 237, 238 (10% of watchstation)

1 TASKS

For the tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What parameters must be monitored?
D. What safety precautions must be observed?
E. Perform this task.

	A	B	C	D	E
11 Set points in 1/4-ton truck using feeler gauge	X	X	X		X
(Signature) (Date)					
12 Set points in 1/4-ton truck using dwell meter	X	X	X		X
(Signature) (Date)					
13 Adjust valves in 1/4-ton truck	X	X	X		X
(Signature) (Date)					
14 Service, charge, load test, and install batteries in 1/4-ton truck	X	X	X		X
(Signature) (Date)					
15 Clean and adjust spark plugs in 1/4-ton truck	X	X	X		X
(Signature) (Date)					
16 Time engine in 1/4-ton truck	X	X	X		X
(Signature) (Date)					
17 Adjust carburetor in 1/4-ton truck	X	X	X		X

		A	B	C	D	E
.18	Test fuel supply pump in 1/4-ton truck	X	X	X		X
	(Signature) (Date)					
.19	Test engine compression in 1/4-ton truck	X	X	X		X
	(Signature) (Date)					
.110	Adjust clutch in 1/4-ton truck	X	X	X		X
	(Signature) (Date)					
.111	Adjust generator and fan drive belts in 1/4-ton truck	X	X	X		X
	(Signature) (Date)					
.112	Pack wheel bearings in 1/4-ton truck	X	X			X
	(Signature) (Date)					
.113	Bleed and adjust brakes in 1/4-ton truck	X	X	X		X
	(Signature) (Date)					
.114	Adjust emergency brake in 1/4-ton truck	X	X	X		X
	(Signature) (Date)					
.115	Lubricate 1/4-ton truck	X	X			X
	(Signature) (Date)					
.116	Change engine oil and filters in 1/4-ton truck	X	X			X
	(Signature) (Date)					
.117	Repair flat tire on 1/4-ton truck	X	X	X		X
	(Signature) (Date)					

1 TASKS (CONT'D)

		A	B	C	D	E
119	Install and troubleshoot electronic ignition system on 1/4-ton truck	X	X	X	X	X
	(Signature) (Date)					
120	Set points in 1-1/4-ton truck using feeler gauge	X	X	X		X
	(Signature) (Date)					
121	Set points in 1-1/4-ton truck using dwell meter	X	X	X		X
	(Signature) (Date)					
122	Adjust valves in 1-1/4-ton truck	X	X	X		X
	(Signature) (Date)					
123	Service, charge, load test, and install batteries in 1-1/4-ton truck	X	X	X		X
	(Signature) (Date)					
124	Clean and adjust spark plugs in 1-1/4-ton truck	X	X	X		X
	(Signature) (Date)					
125	Time engine in 1-1/4-ton truck	X	X	X		X
	(Signature) (Date)					
126	Adjust carburetor in 1-1/4-ton truck	X	X	X		X
	(Signature) (Date)					
127	Test fuel supply pump in 1-1/4-ton truck	X	X	X		X
	(Signature) (Date)					
128	Test engine compression in 1-1/4-ton truck	X	X	X		X

(Signature) (Date)					
.130 Adjust generator and fan drive belts in 1-1/4-ton truck	X	X	X		X
(Signature) (Date)					
.131 Pack wheel bearings in 1-1/4-ton truck	X	X			X
(Signature) (Date)					
.132 Bleed and adjust brakes in 1-1/4-ton truck	X	X	X		X
(Signature) (Date)					
.133 Adjust emergency brake in 1-1/4-ton truck	X	X	X		X
(Signature) (Date)					
.134 Lubricate 1-1/4-ton truck	X	X			X
(Signature) (Date)					
.135 Change engine oil and filters in 1-1/4-ton truck	X	X			X
(Signature) (Date)					
.136 Repair flat tire in 1-1/4-ton truck or 2-1/2-ton truck	X	X	X	X	X
(Signature) (Date)					
.137 Service air cleaner assembly in 1-1/4-ton truck or 2-1/2-ton truck	X	X			X
(Signature) (Date)					
.138 Service air compressor air strainer on 2-1/2-ton truck	X	X			X
(Signature) (Date)					

(Signature) (Date)					
.140 Service, charge, load test, and install batteries in 2-1/2-ton truck	X	X	X		X
(Signature) (Date)					
.141 Time fuel injection pump in 2-1/2-ton truck	X	X	X		X
(Signature) (Date)					
.142 Test fuel supply pump in 2-1/2-ton truck	X	X	X		X
(Signature) (Date)					
.143 Test engine compression in 2-1/2-ton truck	X	X	X		X
(Signature) (Date)					
.144 Change fuel filters in 2-1/2-ton truck	X	X			X
(Signature) (Date)					
.145 Adjust clutch in 2-1/2-ton truck	X	X	X		X
(Signature) (Date)					
.146 Adjust generator and fan drive belts in 2-1/2-ton truck	X	X	X		X
(Signature) (Date)					
.147 Pack wheel bearings in 2-1/2-ton truck	X	X			X
(Signature) (Date)					
.148 Bleed and adjust brakes in 2-1/2-ton truck	X	X	X		X
(Signature) (Date)					

(Signature) (Date)					
.150 Lubricate 2-1/2-ton truck	X	X			X
(Signature) (Date)					
.151 Change engine oil and filters in 2-1/2-ton truck	X	X			X
(Signature) (Date)					
.152 Service air compressor air strainer on 2-1/2-ton truck	X	X			X
(Signature) (Date)					
.153 Adjust air compressor drive belt on 2-1/2-ton truck	X	X	X		X
(Signature) (Date)					
.154 Lubricate 1/4-ton cargo trailer	X	X		X	X
(Signature) (Date)					
.155 Lubricate 3/4-ton cargo trailer	X	X		X	X
(Signature) (Date)					
.156 Lubricate 1-1/2-ton cargo trailer	X	X		X	X
(Signature) (Date)					
.157 Adjust service brakes on 1-1/2-ton cargo trailer	X	X		X	X
(Signature) (Date)					

Completion of .1 area comprises 50% of watchstation.

307.2 INFREQUENT TASKS

For the infrequent tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What safety precautions must be observed?

E. Perform or simulate this task.

	A	B	C	D	E
Replace engine in 1/4-ton truck	X	X	X	X	X
(Signature) (Date)					
Replace cylinder head in 1/4-ton truck	X	X	X	X	X
(Signature) (Date)					
Replace water pump in 1/4-ton truck	X	X		X	X
(Signature) (Date)					
Replace carburetor in 1/4-ton truck	X	X		X	X
(Signature) (Date)					
Replace clutch in 1/4-ton truck	X	X	X	X	X
(Signature) (Date)					
Replace transmission in 1/4-ton truck	X	X	X	X	X
(Signature) (Date)					
Replace radiator in 1/4-ton truck	X	X	X	X	X
(Signature) (Date)					
Replace universal joints in 1/4-ton truck	X	X	X	X	X
(Signature) (Date)					
Replace drive axle in 1/4-ton truck	X	X	X	X	X
(Signature) (Date)					
Replace front or rear differential assembly on 1/4-ton truck	X	X	X	X	X

.211 Replace brake shoes in 1/4-ton truck X X X X X

(Signature) (Date)

.212 Replace exhaust system in 1/4-ton or 1-1/4-ton truck X X X X X

(Signature) (Date)

.213 Locate and isolate 24-volt electrical systems from grounds, shorts, or open circuits in 1/4-ton truck X X X X X

(Signature) (Date)

.214 Replace/rebuild starter motor in 1/4-ton truck X X   X X

(Signature) (Date)

.215 Replace/rebuild alternator/generator and adjust charge rate in 1/4-ton truck X X   X X

(Signature) (Date)

.216 Install deepwater fording kit in 1/4-ton truck X X   X X

(Signature) (Date)

.217 Replace engine in 1-1/4-ton truck X X X X X

(Signature) (Date)

.218 Replace cylinder head in 1-1/4-ton truck X X X X X

(Signature) (Date)

.219 Replace water pump in 1-1/4-ton truck X X   X X

(Signature) (Date)

.220 Replace carburetor in 1-1/4-ton truck X X   X X

(Signature) (Date)

307.2 INFREQUENT TASKS (CONT'D)

	A	B	C	D	E
.221 Replace clutch in 1-1/4-ton truck	X	X	X	X	X
______________________ (Signature) (Date)					
.222 Replace transmission in 1-1/4-ton truck	X	X	X	X	X
______________________ (Signature) (Date)					
.223 Replace radiator in 1-1/4-ton truck	X	X	X	X	X
______________________ (Signature) (Date)					
.224 Replace universal joints in 1-1/4-ton truck	X	X	X	X	X
______________________ (Signature) (Date)					
.225 Rebuild front differential assembly on 1-1/4-ton or 2-1/2-ton truck	X	X	X	X	X
______________________ (Signature) (Date)					
.226 Rebuild rear differential assembly on 1-1/4-ton or 2-1/2-ton truck	X	X	X	X	X
______________________ (Signature) (Date)					
.227 Replace brake shoes on 1-1/4-ton truck	X	X	X	X	X
______________________ (Signature) (Date)					
.228 Locate and isolate 24-volt electrical systems from grounds, shorts, or open circuits on 1-1/4-ton truck	X	X	X	X	X
______________________ (Signature) (Date)					
.229 Replace/rebuild starter motor in 1-1/4-ton truck	X	X		X	X
______________________ (Signature) (Date)					
.230 Replace/rebuild alternator/generator and adjust					

(Signature) (Date)

[illegible] in 2-1/2-ton truck X X X X X

(Signature) (Date)

.233 Replace cylinder head in 2-1/2-ton truck X X X X X

(Signature) (Date)

.234 Replace water pump in 2-1/2-ton truck X X   X X

(Signature) (Date)

.235 Replace clutch in 2-1/2-ton truck X X X X X

(Signature) (Date)

.236 Replace transmission in 2-1/2-ton truck X X X X X

(Signature) (Date)

.237 Replace radiator in 2-1/2-ton truck X X X X X

(Signature) (Date)

.238 Replace universal joints in 2-1/2-ton truck X X X X X

(Signature) (Date)

.239 Repair rear suspension on 2-1/2-ton truck X X X X X

(Signature) (Date)

.240 Replace brake shoes on 2-1/2-ton truck X X X X X

(Signature) (Date)

.241 Replace exhaust system [illegible] 2-1/2-ton truck X X X X X

INFREQUENT TASKS (CONT'D)

	A	B	C	D	E
Locate and isolate 24-volt electrical systems from grounds, shorts, or open circuits on 2-1/2-ton truck	X	X	X	X	X
(Signature) (Date)					
Replace/rebuild starter motor in 2-1/2-ton truck	X	X		X	X
(Signature) (Date)					
Replace/rebuild alternator/generator and adjust charge rate in 2-1/2-ton truck	X	X		X	X
(Signature) (Date)					
Install deepwater fording kit in 2-1/2-ton truck	X	X		X	X
(Signature) (Date)					
Replace fuel injection pump in 2-1/2-ton truck	X	X		X	X
(Signature) (Date)					
Replace fuel injectors in 2-1/2-ton truck	X	X		X	X
(Signature) (Date)					
Replace air compressor in 2-1/2-ton truck	X	X		X	X
(Signature) (Date)					
Adjust compressor governor on 2-1/2-ton truck	X	X		X	X
(Signature) (Date)					
Adjust compressor unloader valve on 2-1/2-ton truck	X	X		X	X
(Signature) (Date)					

Completion of .2 area comprises 30% of watchstation.

308 WATCHSTATION - LARC-V SUPPORT HEADQUARTERS MECHANIC 308

Estimated completion time: 6 weeks

Before starting your assigned tasks, complete the following items:

Fundamentals: 101, 104, 107 thru 112, 115, 116 (10% of watchstation)

Systems: 201 thru 209, 213 thru 215, 218, 235, 237, 238
(10% of watchstation)

308.1 TASKS

For the tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What safety precautions must be observed?
E. What parameters must be monitored?
F. Perform this task.

		A	B	C	D	E	F
.11	Service, charge, test, and install batteries	X	X		X	X	X

(Signature) (Date)

.12	Replace coolant water filter	X	X		X	X	X

(Signature) (Date)

.13	Replace primary fuel filter and service fuel sediment bowl	X	X		X	X	X

(Signature) (Date)

.14	Replace secondary fuel filters	X	X		X	X	X

(Signature) (Date)

.15	Replace hydraulic oil filter element	X	X		X	X	X

(Signature) (Date)

.16	Replace both transmission hydraulic filter elements and clean filter screen	X	X		X	X	X

308.1 TASKS (CONT'D)

		A	B	C	D	E	F
.18	Change engine oil, and full-flow and by-pass oil filters	X	X		X	X	X
	(Signature) (Date)						
.19	Change oil in differential transmission ends	X	X		X	X	X
	(Signature) (Date)						
.110	Change oil in wheel ends and right-angle drive units	X	X		X		X
	(Signature) (Date)						
.111	Rebuild front wheel end assemblies	X	X		X		X
	(Signature) (Date)						
.112	Adjust tie rods	X	X		X		X
	(Signature) (Date)						
.113	Adjust steering stops	X	X	X	X	X	X
	(Signature) (Date)						
.114	Adjust rudder	X	X	X			X
	(Signature) (Date)						
.115	Adjust transmission linkages and control cables	X	X		X		X
	(Signature) (Date)						
.116	Bleed air from brake system	X	X	X	X		X
	(Signature) (Date)						
.117	Adjust alternator drive belts	X	X		X	X	X
	(Signature) (Date)						

8.1 TASKS (CONT'D)

	A	B	C	D	E	F
.119 Test engine compression	X	X	X	X	X	X
(Signature) (Date)						
.120 Adjust valves	X	X	X	X	X	X
(Signature) (Date)						

Completion of .1 area comprises 40% of watchstation.

8.2 INFREQUENT TASKS

For the infrequent tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What safety precautions must be observed?
E. What parameters must be monitored?
F. How are monitored parameters changed by this infrequent task?
G. What conditions require this infrequent task?
H. Perform or simulate this task.

	A	B	C	D	E	F	G	H
.21 Replace engine	X	X	X	X			X	X
(Signature) (Date)								
.22 Replace cylinder head	X	X	X	X			X	X
(Signature) (Date)								
.23 Replace water pump	X	X		X			X	X
(Signature) (Date)								
.24 Replace PT pump	X	X	X	X	X		X	X
(Signature) (Date)								
.25 Replace starter motor	X	X		X			X	X

	(Signature) (Date)							
.28	Replace forward-neutral-reverse transmission	X	X	X	X			X
	(Signature) (Date)							
.29	Replace high-low transfer transmission	X	X	X	X			X
	(Signature) (Date)							
.210	Replace differential transmission	X	X	X	X			X
	(Signature) (Date)							
.211	Replace universal joints	X	X		X			X
	(Signature) (Date)							
.212	Replace main drive shafts	X	X		X			X
	(Signature) (Date)							
.213	Replace pillow block bearing	X	X		X			X
	(Signature) (Date)							
.214	Replace marine drive shaft	X	X		X			X
	(Signature) (Date)							
.215	Replace exhaust system	X	X		X			X
	(Signature) (Date)							
.216	Repair/replace alternator	X	X		X	X	X	X
	(Signature) (Date)							
.217	Locate and isolate electrical system from grounds, shorts, or open circuits	X	X	X	X	X	X	X

	(Signature) (Date)								
.219	Stall test and take oil pressure readings	X	X		X	X	X	X	X
	(Signature) (Date)								
.220	Set up LARC-V fuel system for emergency operation without electrical power	X	X		X			X	X
	(Signature) (Date)								
.221	Adjust high/low idle	X	X		X	X		X	X
	(Signature) (Date)								
.222	Rebuild brake system components	X	X	X	X			X	X
	(Signature) (Date)								
.223	Replace fuel injector	X	X		X			X	X
	(Signature) (Date)								
.224	Replace heater	X	X		X				X
	(Signature) (Date)								
.225	Replace taillight/stoplight and navigation lights	X	X		X				X
	(Signature) (Date)								
.226	Replace compass	X	X						X
	(Signature) (Date)								
.227	Replace speedometer sending unit/gauge	X	X		X			X	X
	(Signature) (Date)								
.228	Replace junction box	X	X		X			X	X

308.2 INFREQUENT TASKS (CONT'D)

		A	B	C	D	E	F
.229	Replace F-N-R transmission heater exchanger	X	X		X		
	(Signature) (Date)						
.230	Replace F-N-R, high-low and main hydraulic pumps	X	X		X		
	(Signature) (Date)						
.231	Locate and isolate hydraulic system components malfunction	X	X				
	(Signature) (Date)						
.232	Replace fan clutch assembly	X	X		X		
	(Signature) (Date)						
.233	Replace steering cylinder and related subcomponents	X	X	X	X	X	
	(Signature) (Date)						
.234	Remove and replace (R/R) steering box	X	X		X		
	(Signature) (Date)						
.235	R/R propulsion shaft, bearings and screw	X	X	X	X	X	X
	(Signature) (Date)						
.236	Replace water pump	X	X				
	(Signature) (Date)						
.237	Drain and flush port and starboard fuel tanks	X	X		X	X	
	(Signature) (Date)						

Completion of .2 area comprises 40% of watchstation.

Before starting your assigned tasks, complete the following items:

School: D-8K Tractor Operator (3-day) (Command Generated)

Fundamentals: 110, 116 (10% of watchstation)

System: 236 (5% of watchstation)

TASKS

For the tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What safety precautions must be observed?
E. What parameters must be monitored?
F. Perform this task.

	A	B	C	D	E	F
Display operator's license and check out tractor from dispatcher	X	X	X			X
(Signature) (Date)						
Operator's pre-start inspection	X	X		X	X	X
(Signature) (Date)						
Start and warm up the engine	X	X		X	X	X
(Signature) (Date)						
Check the systems operation	X	X		X	X	X
(Signature) (Date)						
Complete operator's daily post-maintenance (PM) report	X	X	X			X
(Signature) (Date)						
Operate and control tractor on level ground	X	X		X	X	X

309.1 TASKS (CONT'D)

		A	B	C	D	E	F
.17	Operate and control tractor on slopes	X	X		X	X	X
	(Signature) (Date)						
.18	Operate tractor under earth-moving conditions	X	X		X	X	X
	(Signature) (Date)						
.19	Operate tractor while pushing small craft off beach	X	X	X	X	X	X
	(Signature) (Date)						
.110	Daily operator's maintenance (first echelon)	X	X		X		X
	(Signature) (Date)						
.111	Normal shutdown	X	X		X	X	X
	(Signature) (Date)						
.112	Operate tractor to pull stuck or disabled vehicle	X	X	X	X	X	X
	(Signature) (Date)						
.113	Operate tractor in surf zone considering water depth	X	X	X	X	X	X
	(Signature) (Date)						

Completion of .1 area comprises 45% of watchstation.

309.2 INFREQUENT TASKS

For the infrequent tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What safety precautions must be observed?
E. What parameters must be monitored?
F. How are monitored parameters changed by this infrequent task?
G. What conditions require this infrequent task?
H. Perform or simulate this task.

(Signature) (Date)

.23 Reverse fan blades X X X X X X X X

(Signature) (Date)

.24 Operate tractor while pushing causeway sections off beach X X X X X X X X

(Signature) (Date)

.25 Load tractor aboard ship or boat X X X X   X X

(Signature) (Date)

.26 Store tractor aboard ship or boat X X X X   X X

(Signature) (Date)

.27 Use tractor as dead man X X X X   X X

(Signature) (Date)

Completion of .2 area comprises 20% of watchstation.

.3 ABNORMAL CONDITIONS

For the abnormal conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. What emergencies or malfunctions may occur if immediate action is not taken?
F. How does this condition affect other operations/equipment/watchstations?
G. What followup action is required?
H. Perform or simulate the corrective/immediate action for this abnormal condition.

	A	B	C	D	E	F	G	H
.31 High engine coolant temperature	X	X	X		X	X	X	X

(Signature) (Date)

	(Signature) (Date)							
.33	Low engine oil pressure	X	X	X	X	X	X	X
	(Signature) (Date)							
.34	Air cleaner service indicator reading in danger zone (red)	X	X	X	X	X	X	X
	(Signature) (Date)							
.35	High torque converter oil pressure	X	X	X	X	X	X	X
	(Signature) (Date)							
.36	Low brake pedal pressure	X		X	X	X	X	X
	(Signature) (Date)							
.37	Excessive noise and/or vibrations	X	X	X	X	X	X	X
	(Signature) (Date)							
.38	Excessive slack or tight track	X		X	X	X	X	X
	(Signature) (Date)							
.39	Frayed winch cable	X		X	X	X		X
	(Signature) (Date)							
.310	Winch failure	X	X	X	X	X	X	X
	(Signature) (Date)							
.311	Low steering assist	X	X	X	X	X	X	X
	(Signature) (Date)							
.312	Fan on in surf zone	X	X	X	X	X	X	X

	A	B	C	D	E	F	G	H
High/low transmission lubricating oil pressure	X	X	X	X	X	X	X	X

(Signature) (Date)

Low clutch oil pressure	X	X	X	X	X	X	X	X

(Signature) (Date)

Low fuel supply pressure	X		X	X			X	X

(Signature) (Date)

Completion of .3 area comprises 10% of watchstation.

EMERGENCIES

For the emergency conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. What other emergencies or malfunctions may occur if immediate action is not taken?
F. How does this emergency affect other operations/equipment/watchstations?
G. Perform or simulate the immediate action for this emergency condition.

	A	B	C	D	E	F	G
Engine overspeed	X	X	X	X	X	X	X

(Signature) (Date)

Loss of steering	X	X	X	X	X	X	X

(Signature) (Date)

Loss of engine oil pressure	X	X	X	X	X	X	X

(Signature) (Date)

Loss of electrical power	X	X	X	X		X	X

.4 EMERGENCIES (CONT'D)

	A	B	C	D	E	F	G
.45 No blade operation	X	X	X	X		X	X

(Signature) (Date)

Completion of .4 area comprises 10% of watchstation.

.5 WATCHES - None.

Before starting your assigned tasks, complete the following items:

PQS Qualification: NAVEDTRA 43248A-Q1

System: 223 (5% of watchstation)

.1 TASKS

For the tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What communications must be established?
E. Perform this task.

		A	B	C	D	E
.11	Properly relieve the watch, receiving all pass-down instructions	X	X	X		X
	(Signature) (Date)					
.12	Hold inventory on all publications and classified material storage (CMS)	X	X			X
	(Signature) (Date)					
.13	Properly maintain radio circuit log	X	X	X	X	X
	(Signature) (Date)					
.14	Act as net control and maintain communications on the beachmaster administration nets until operations on the beach are secured	X	X	X	X	X
	(Signature) (Date)					
.15	Keep the utility duty officer (UDO) informed of the status of all operations	X	X	X		X
	(Signature) (Date)					
.16	Make appropriate changes to the operations schedule board as needed	X	X	X	X	X

.17 Pick up and route incoming message traffic X X X

(Signature) (Date)

.18 Handle and route personal messages for commanding officers X X X X X

(Signature) (Date)

.19 Handle and route secret messages X X X X X

(Signature) (Date)

.110 Handle and route notification of death or serious injury message X X X X X

(Signature) (Date)

.111 Handle and route messages from American Red Cross (AMCROSS) X X X X X

(Signature) (Date)

.112 Empty burn bags in the CO's, XO's, and OP's office X X X

(Signature) (Date)

.113 Properly secure radio and operations office prior to leaving for the day X X X X

(Signature) (Date)

.114 Pass down all information/instructions to the oncoming watch or day workers prior to being relieved X X X X X

(Signature) (Date)

.115 Properly safeguard all classified material/CMS under your control X X X

(Signature) (Date)

0.2 INFREQUENT TASKS

For the infrequent tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What communications must be established?
E. What safety precautions must be observed?
F. What conditions require this infrequent task?
G. Perform or simulate this task.

	A	B	C	D	E	F	G
.21 Type and deliver outgoing message traffic	X	X	X			X	X

(Signature) (Date)

	A	B	C	D	E	F	G
.22 Assist the UDO/senior duty officer (SDO) with emergency action message traffic	X	X	X			X	X

(Signature) (Date)

	A	B	C	D	E	F	G
.23 Look up and/or verify call signs from appropriate sources	X	X	X	X		X	X

(Signature) (Date)

	A	B	C	D	E	F	G
.24 Energize, tune, and operate AN/URC-35	X	X	X	X	X	X	X

(Signature) (Date)

Completion of .2 area comprises 25% of watchstation.

0.3 ABNORMAL CONDITIONS

For the abnormal conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. What emergencies or malfunctions may occur if immediate action is not taken?
F. How does this condition affect other operations/equipment/watchstations?
G. What followup action is required?
H. Perform or simulate the corrective/immediate action for this abnormal condition.

310.3 ABNORMAL CONDITIONS (CONT'D)

		A	B	C	D
.32	Power loss/inoperative AN/URC-35	X	X	X	X

(Signature) (Date)

		A	B	C	D
.33	Receipt of a request from the beach for a LARC/ vehicle mechanic	X	X		

(Signature) (Date)

Completion of .3 area comprises 10% of watchstation.

310.4 EMERGENCIES

For the emergency conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. What other emergencies or malfunctions may occur if immedi action is not taken?
F. How does this emergency affect other operations/equipment/ watchstations?
G. Perform or simulate the immediate action for this emergenc condition.

		A	B	C	D
.41	Request for an ambulance to be dispatched to the beach for MEDEVAC	X	X		

(Signature) (Date)

		A	B	C	D
.42	Forced entry	X	X		X

(Signature) (Date)

		A	B	C	D
.43	Fire or natural disaster	X	X		X

(Signature) (Date)

		A	B	C	D
.44	Emergency destruction	X	X	X	X

(Signature) (Date)

311 WATCHSTATION - TEAM MEMBER 311

Estimated completion time: 4 weeks

Before starting your assigned tasks, complete the following items:

School: Assault Boat Coxswain School H-813-5316

PQS Qualification: NAVEDTRA 43248A-Q6

Fundamentals: 101, 103, 104, 113 (10% of watchstation)

Systems: 201 thru 203, 205, 207 thru 210, 213 thru 215, 218
(40% of watchstation)

311.1 TASKS

For the tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What communications must be established?
E. What safety precautions must be observed?
F. What parameters must be monitored?
G. Perform this task.

		A	B	C	D	E	F	G
.11	Demonstrate traffic control hand signals	X	X	X				X
	(Signature) (Date)							
.12	Don protective mask and clothing	X	X					X
	(Signature) (Date)							
.13	Demonstrate use of pocket dosimeter	X	X				X	X
	(Signature) (Date)							
.14	Operate a portable CO2 fire extinguisher	X	X			X		X
	(Signature) (Date)							
.15	Operate radio set (AN/PRC-25)	X	X		X			X

(Signature) (Date)

.18 Load, fire, field strip, and clean M-16 rifle X X X

(Signature) (Date)

.19 Load, fire, field strip, and clean M-203 grenade launcher X X X

(Signature) (Date)

.110 Load, fire, field strip, and clean M-60 machinegun X X X

(Signature) (Date)

.111 Load, fire, field strip, and clean .45-caliber pistol/.9mm pistol X X X

(Signature) (Date)

.112 Make up and don 782 gear (including Alice pack) X X

(Signature) (Date)

.113 Set up GP/CP tent X X

(Signature) (Date)

.114 Set up two-man tent using two shelter halves X X

(Signature) (Date)

.115 Operate lantern/tent heater/cooking stove X X X

(Signature) (Date)

.116 Operate P-250 pump X X

(Signature) (Date)

A. What are the steps of this procedure?
B. What safety precautions must be observed?
C. What conditions require this infrequent task?
D. Perform or simulate this task.

Operate a 110-volt portable generator

(Signature) (Date)

Completion of .2 area comprises 5% of watchstation.

ABNORMAL CONDITIONS

For the abnormal conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What operating limitations are imposed?
D. What emergencies or malfunctions may occur if immediate action is not taken?
E. Perform or simulate the corrective/immediate action for this abnormal condition.

	A	B	C	D	E
Leakage of fuel from a lantern, heater, or cooking stove	X	X	X	X	X
(Signature) (Date)					
Faulty ammunition	X	X	X	X	X
(Signature) (Date)					
Worn parts on an M-16 rifle, M-60 machinegun, M-203 grenade launcher, and .45-caliber pistol	X	X	X		X
(Signature) (Date)					
Air leak in protective mask/clothing	X	X		X	X
(Signature) (Date)					
Inoperative P-250 pump	X	X	X		X
(Signature) (Date)					

311.4 EMERGENCIES

For the emergency conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What operating limitations are imposed?
D. What other emergencies or malfunctions may occur if immediate action is not taken?
E. Perform or simulate the immediate action for this emergency condition.

		A	B	C	D	E
.41	Heater, lantern, or cooking stove explosion	X	X		X	X

(Signature) (Date)

.42	Malfunction of M-16 rifle, M-60 machinegun, M-203 grenade launcher, and .45-caliber pistol	X	X	X	X	X

(Signature) (Date)

.43	Tent fire	X	X			X

(Signature) (Date)

Completion of .4 area comprises 10% of watchstation.

311.5 WATCHES - None.

fore starting your assigned tasks, complete the following items:

PQS Qualification: NAVEDTRA 43248A-Q11

Fundamental: 102 (10% of watchstation)

SKS

r the tasks listed below:

What are the steps of this procedure?
What are the reasons for each step?
What control/coordination is required?
What safety precautions must be observed?
Perform this task.

	A	B	C	D	E
monstrate all day and night traffic control flag d hand signals	X	X	X		X
ignature) (Date)					
t up beach marker lights for a colored beach	X	X	X		X
ignature) (Date)					
t up LST and causeway markers	X	X	X		X
ignature) (Date)					
t up LST and causeway lights	X	X	X		X
ignature) (Date)					
t as messenger during beach operations	X	X	X		X
ignature) (Date)					
rect the proper debarkation and embarkation personnel from landing craft	X	X	X	X	X
ignature) (Date)					

rect the proper debarkation and embarkation of vehicles from landing craft X X X X X

(Signature) (Date)

.19 Connect towline to a disabled vehicle X X X X X

(Signature) (Date)

Completion of .1 area comprises 35% of watchstation.

312.2 INFREQUENT TASKS

For the infrequent tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What safety precautions must be observed?
E. Perform or simulate this task.

.21 Obtain and properly rig ramp raising gear

(Signature) (Date)

Completion of .2 area comprises 20% of watchstation.

312.3 ABNORMAL CONDITIONS

For the abnormal conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. What emergencies or malfunctions may occur if immediate action is not taken?
F. How does this condition affect other operations/equipment/watchstations?
G. What followup action is required?
H. Perform or simulate the corrective/immediate action for this abnormal condition.

	A	B	C	D	E	F	G	H
.31 Deep holes in front of boat ramp	X	X	X	X	X	X	X	X

(Signature) (Date)

312.3 ABNORMAL CONDITIONS (CONT'D)

	A	B	C	D	E	F	G	H	I
.32 Kinked, worn ramp-raising wire, or no slack in ramp wire when ramp is down	X	X	X	X	X	X		X	

(Signature) (Date)

Completion of .3 area comprises 25% of watchstation.

312.4 EMERGENCIES

For the emergency conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What operating limitations are imposed?
D. What other emergencies or malfunctions may occur if immediate action is not taken?
E. How does this emergency affect other operations/equipment/watchstations?
F. Perform or simulate the immediate action for this emergency condition.

.41 Ramp failure

(Signature) (Date)

Completion of .4 area comprises 10% of watchstation.

312.5 WATCHES - None.

timated completion time: 4 weeks

efore starting your assigned tasks, complete the following items:

Schools: Amphibious Communications - Enlisted (H-00-5210),
Communications Security and Countermeasures
(H-201-5217), and
Landing Force Communications Equipment Waterproofing/
Weatherproofing (H-201-3332)

PQS Qualification: NAVEDTRA 43248A-Q11

Fundamentals: 105, 106, 114 (10% of watchstation)

Systems: 206, 223, 225, 226 (10% of watchstation)

ASKS

or the tasks listed below:

. What are the steps of this procedure?
. What are the reasons for each step?
. What control/coordination is required?
. What communications must be established?
. What safety precautions must be observed?
. What parameters must be monitored?
. Perform this task.

	A	B	C	D	E	F	G
btain OP order and determine required circuits, articipating units on those circuits, and time/ rder of events for that operation	X	X	X				X
Signature) (Date)							
rite frequency plan from OP order when required	X	X	X				X
Signature) (Date)							
heck out communications jeep and trailer (if equired) from vehicle dispatcher	X	X	X				X
Signature) (Date)							
oad required communications equipment, accessories, nd appropriate administrative publications, manuals, nd forms in communication jeep for beach perations	X	X	X	X	X	X	X

313.1 TASKS (CONT'D)

		A	B	C	D	E	F	G
.15	Obtain appropriate call signs	X	X	X				X
	(Signature) (Date)							
.16	Set up on beach	X	X					X
	(Signature) (Date)							
.17	Establish communications with base operations and pass required information	X	X	X	X		X	X
	(Signature) (Date)							
.18	Establish communications with primary control ship (PCS), operating ships, and units on required circuits	X	X	X	X		X	X
	(Signature) (Date)							
.19	Properly maintain radio circuit log	X	X	X	X			X
	(Signature) (Date)							
.110	Properly maintain beach log	X	X	X				X
	(Signature) (Date)							
.111	Properly send SUROB report to PCS on appropriate circuit	X	X	X	X		X	X
	(Signature) (Date)							
.112	Copy time check from PCS	X	X	X	X		X	X
	(Signature) (Date)							
.113	Copy H-hour confirmation, wave composition/interval from PCS	X	X	X	X		X	X
	(Signature) (Date)							

1 TASKS (CONT'D)

	A	B	C	D	E	F	G
115 Establish communications with salvage boat (when used)	X	X	X	X		X	X
(Signature) (Date)							
116 Establish communications with medical boat (when used)	X	X	X	X		X	X
(Signature) (Date)							
.117 Maintain normal communications on all required circuits, keeping the Beach Party Team Commander/ Assistant Commander and Base Operations (if needed) informed of all incidents and/or events that occur	X	X	X	X		X	X
(Signature) (Date)							
.118 Observe and record touchdown times of all scheduled waves	X	X	X			X	X
(Signature) (Date)							
.119 Send touchdown times to PCS upon landing of last scheduled wave; also send time check to PCS (if requested)	X	X	X	X		X	X
(Signature) (Date)							
.120 Secure beach upon approval of PCS	X	X	X	X		X	X
(Signature) (Date)							
.121 Report to Base Operations that beach is secured and operations/exercises are completed	X	X	X	X		X	X
(Signature) (Date)							
.122 Supervise all beach party team radio operators in proper radio procedures and operation	X	X	X	X			X
(Signature) (Date)							

313.1 TASKS (CONT'D)

	Task	A	B	C	D	E	F	G
.123	Properly safeguard and dispose of classified material/CMS used by the beach party team	X	X	X		X	X	X
	(Signature) (Date)							
.124	Properly stow all communications gear, vehicle, accessories, and appropriate administrative sources (publications, manuals, forms) upon completion of beach operations	X	X	X		X		X
	(Signature) (Date)							

Completion of .1 area comprises 40% of watchstation.

313.2 INFREQUENT TASKS

For the infrequent tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What communications must be established?
E. What safety precautions must be observed?
F. What parameters must be monitored?
G. What conditions require this infrequent task?
H. Perform or simulate this task.

	Task	A	B	C	D	E	F	G	H
.21	Take surf observation (SUROB) report	X	X	X			X	X	X
	(Signature) (Date)								
.22	Install AN/URC-35 in communications jeep	X	X	X		X	X	X	X
	(Signature) (Date)								
.23	Set up, tune, and operate AN/URC-35	X	X	X	X		X	X	X
	(Signature) (Date)								
.24	Set up and operate the AN/PRC-77 with the KY-38 and KY-28	X	X	X	X		X	X	X
	(Signature) (Date)								

		A	B	C	D	E	F	G	H
.26	Perform required waterproofing of communications gear	X	X	X				X	X

(Signature) (Date)

.27	Perform daily inventory and destruction of appropriate key lists while in the field	X	X	X		X	X	X	X

(Signature) (Date)

.28	Load mount-out boxes for deployment	X	X	X				X	X

(Signature) (Date)

Completion of .2 area comprises 20% of watchstation.

313.3 ABNORMAL CONDITIONS

For the abnormal conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. What emergencies or malfunctions may occur if immediate action is not taken?
F. How does this condition affect other operations/equipment/watchstations?
G. What followup action is required?
H. Perform or simulate the corrective/immediate action for this abnormal condition.

		A	B	C	D	E	F	G	H
.31	Operating installed radios in communications jeep with engine turned off	X	X		X	X	X	X	X

(Signature) (Date)

.32	Starting the communications jeep with installed radios turned on	X	X		X	X	X	X	X

(Signature) (Date)

.33	Driving communications jeep with installed antennas in upright position	X	X		X	X	X	X	X

113.3 ABNORMAL CONDITIONS (CONT'D)

A B C D E F G H

.34 Improper/dirty connections on AN/URC-35 X X X X X X X X

(Signature) (Date)

.35 Power loss/inoperative AN/URC-35 X X X X X X X X

(Signature) (Date)

.36 Improper/dirty connections on KY-38 with AN/PRC-77 X X X X X X X X

(Signature) (Date)

.37 Power loss/inoperative KY-38 with AN/PRC-77 X X X X X X X X

(Signature) (Date)

.38 Inoperative field telephone set (TA-312/PT) X X X X X X X X

(Signature) (Date)

.39 Inoperative communications jeep X X X X X X X X

(Signature) (Date)

Completion of .3 area comprises 15% of watchstation.

113.4 EMERGENCIES

For the emergency conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. What other emergencies or malfunctions may occur if immediate action is not taken?
F. How does this emergency affect other operations/equipment/watchstations?
G. Perform or simulate the immediate action for this emergency condition.

.41 Lost/stolen CMS material and equipment

.4 EMERGENCIES (CONT'D)

.42 Emergency destruction of CMS material and equipment

(Signature) (Date)

Completion of .4 area comprises 5% of watchstation.

3.5 WATCHES - None.

CHSTATION - BEACH PARTY GROUP RADIOMAN 314

imated completion time: 4 weeks

ore starting your assigned tasks, complete the following items:

PQS Qualification: NAVEDTRA 43248A-Q13

Systems: 227, 228 (10% of watchstation)

KS

the tasks listed below:

What are the steps of this procedure?
What are the reasons for each step?
What control/coordination is required?
What communications must be established?
What safety precautions must be observed?
What parameters must be monitored?
Perform this task.

	A	B	C	D	E	F	G
up command post ashore	X	X	X				X
gnature) (Date)							
ablish communications with primary control ship S) and inform them that the beach party group mander has assumed command of the beach	X	X	X	X		X	X
gnature) (Date)							
up and operate switchboard (SB-22/PT)	X	X	X	X		X	X
gnature) (Date)							
up landline and establish communications with beach party teams	X	X	X	X		X	X
gnature) (Date)							
ablish radio communications with beach party ms on lateral coordination circuit	X	X	X	X		X	X

.16 Maintain normal communications with PCS, beach party teams, causeway units, and other operating forces, keeping Beach Party Group Commander/Assistant Commander informed of all incidents and/or events that occur X X X X   X X

(Signature) (Date)

.17 Maintain required status boards (offload, communications plan, etc.) X X X X   X

(Signature) (Date)

.18 Properly safeguard and dispose of classified material/CMS used by the beach party group X X X   X X X

(Signature) (Date)

Completion of .1 area comprises 75% of watchstation.

314.2 INFREQUENT TASKS - None to be discussed.

314.3 ABNORMAL CONDITIONS

For the abnormal conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. What emergencies or malfunctions may occur if immediate action is not taken?
F. How does this condition affect other operations/equipment/watchstations?
G. What followup action is required?
H. Perform or simulate the corrective/immediate action for this abnormal condition.

.31 Improper/dirty connections on switchboard (SB-22/PT)

(Signature) (Date)

.32 Power loss/inoperative switchboard (SB-22/PT)

(Signature) (Date)

EMERGENCIES - None to be discussed.

WATCHES - None.

Before starting your assigned tasks, complete the following items.

PQS Qualification: NAVEDTRA 43248A-Q11

5.1 TASKS

For the tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What safety precautions must be observed?
E. Perform this task.

	A	B	C	D	E
.11 Supervise and direct tent setup	X	X		X	X
(Signature) (Date)					
.12 Supervise and direct camp latrine setup	X	X	X	X	X
(Signature) (Date)					
.13 Supervise and control rations issue	X		X		X
(Signature) (Date)					
.14 Direct camp equipment issue	X	X	X		X
(Signature) (Date)					
.15 Supervise and direct equipment camouflaging	X	X	X	X	X
(Signature) (Date)					
.16 Assign personnel for camp perimeter defense	X	X	X		X
(Signature) (Date)					
.17 Inspect camp for cleanliness and sanitation	X	X			X
(Signature) (Date)					

315.1 TASKS (CONT'D)

Task	A	B	C	D	E
.18 Inspect camp equipment for proper use	X	X		X	X

(Signature) (Date)

Task	A	B	C	D	E
.19 Inspect camp perimeter defense	X	X	X	X	X

(Signature) (Date)

Task	A	B	C	D	E
.110 Assist in storage of ammunition and weapons	X	X	X	X	X

(Signature) (Date)

Completion of .1 area comprises 90% of watchstation.

315.2 INFREQUENT TASKS - None to be discussed.

315.3 ABNORMAL CONDITIONS - None to be discussed.

315.4 EMERGENCIES

For the emergency conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. What other emergencies or malfunctions may occur if immediate action is not taken?
F. How does this emergency affect other operations/equipment/watchstations?
G. Perform or simulate the immediate action for this emergency condition.

.41 Tent fire

(Signature) (Date)

.42 Brush fire

(Signature) (Date)

.6 WATCHSTATION - TEAM SIGNALMAN

Estimated completion time: 2 weeks

Before starting your assigned tasks, complete the following items:

PQS Qualification: NAVEDTRA 43248A-Q11

Fundamental: 105 (5% of watchstation)

Systems: 206, 219 thru 226 (15% of watchstation)

.6.1 TASKS

For the tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What communications must be established?
E. What parameters must be monitored?
F. What safety precautions must be observed?
G. Perform this task.

		A	B	C	D	E	F	G
.11	Energize, focus, dismantle, and stow AN/SAR-7	X	X	X		X	X	X
	(Signature) (Date)							
.12	Operate portable gasoline generator	X	X				X	X
	(Signature) (Date)							
.13	Assemble 12-inch signal searchlight tripod	X	X					X
	(Signature) (Date)							
.14	Attach 12-inch signal searchlight to tripod	X	X					X
	(Signature) (Date)							
.15	Energize, secure, and operate 12-inch signal searchlight, using 24-volt power source (LARC, jeep, 4 X 4) or 110-volt power source (portable generator)	X	X			X	X	X

316.1 TASKS (CONT'D)

		A	B	C	D
.17	Attach hoods and filters to 12-inch signal searchlight	X	X	X	X
	(Signature) (Date)				
.18	Energize, adjust, operate, and stow multipurpose signal light	X	X	X	X
	(Signature) (Date)				
.19	Transmit and receive a message using semaphore signaling procedures	X	X	X	X
	(Signature) (Date)				
.110	Use and stow binoculars	X	X		
	(Signature) (Date)				
.111	Read signals transmitted by use of naval signal flags and pennants	X	X	X	X
	(Signature) (Date)				
.112	Load, fire, clean, and stow a Very pistol	X	X	X	X
	(Signature) (Date)				
.113	Establish call sign of ship you are operating with	X	X		X
	(Signature) (Date)				

Completion of .1 area comprises 70% of watchstation.

316.2 INFREQUENT TASKS - None to be discussed.

316.3 ABNORMAL CONDITIONS

For the abnormal conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?

316.3 ABNORMAL CONDITIONS (CONT'D)

F. What followup action is required?
G. Perform or simulate the corrective/immediate action for this abnormal condition.

.31 Inoperative signal generator

(Signature) (Date)

.32 Inoperative multipurpose signal light

(Signature) (Date)

.33 Inoperative 12-inch signal searchlight

(Signature) (Date)

Completion of .3 area comprises 10% of watchstation.

316.4 EMERGENCIES - None to be discussed.

316.5 WATCHES - None.

317 WATCHSTATION - LARC-V CREWMEMBER

Estimated completion time: 1 week

Before starting your assigned tasks, complete the following items:

School: P-250 Pump Repair (A-495-2037)

PQS Qualifications: NAVEDTRA 43248A-Q1 and NAVEDTRA 43248A-Q11

Systems: 216, 217, 229, 230, 235 (20% of watchstation)

317.1 TASKS

For the tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What communications must be established?
E. What safety precautions must be observed?
F. What parameters must be monitored?
G. Perform this task.

		A	B	C	D	E	F	G
.11	Connect, start, and operate the P-250 pump	X	X			X	X	X
	(Signature) (Date)							
.12	Secure and stow the P-250 pump and accessories	X	X					X
	(Signature) (Date)							
.13	Operate hand bilge pump	X	X	X	X	X		X
	(Signature) (Date)							
.14	Direct operator in backing LARK-V	X	X	X	X	X		X
	(Signature) (Date)							
.15	Connect the bowline to a broached boat	X	X	X		X	X	X
	(Signature) (Date)							
.16	Retrieve and stow the bowline after use	X	X	X		X		X

317.1 TASKS (CONT'D)

	A	B	C	D	E
.17 Act as lookout/bowhook	X	X	X		
(Signature) (Date)					
.18 Stow equipment in lazaret and salvage box	X	X			
(Signature) (Date)					
.19 Stow boat repair box	X	X			
(Signature) (Date)					
.110 Operate LARC-V in two-wheel drive	X	X	X		X
(Signature) (Date)					
.111 Operate LARC-V in four-wheel drive	X	X	X		X
(Signature) (Date)					
.112 Operate LARC-V entering surf zone from land	X	X	X	X	X
(Signature) (Date)					
.113 Operate LARC-V entering surf zone from seaward	X	X	X	X	X
(Signature) (Date)					
.114 Operate LARC-V on water	X	X	X	X	X
(Signature) (Date)					

Completion of .1 area comprises 40% of watchstation.

317.2 INFREQUENT TASKS

For the infrequent tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What communications must be established?

1 Connect LARC-V for lifting with slings

(Signature) (Date)

Completion of .2 area comprises 5% of watchstation.

ABNORMAL CONDITIONS

For the abnormal conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. What emergencies or malfunctions may occur if immediate action is not taken?
F. How does this condition affect other operations/equipment/watchstations?
G. What followup action is required?
H. Perform or simulate the corrective/immediate action for this abnormal condition.

	A	B	C	D	E	F	G	H
1 Bowline in water	X	X	X	X	X		X	X
(Signature) (Date)								
2 Towline in water	X	X	X	X	X		X	X
(Signature) (Date)								
3 Unusual odors or fumes	X	X	X	X	X		X	X
(Signature) (Date)								
4 Low tire pressure	X	X	X	X	X		X	X
(Signature) (Date)								
5 Seals on deck plates leaking	X	X	X	X	X		X	X
(Signature) (Date)								
6 Bilge plugs leaking	X	X	X	X	X		X	X

317.3 ABNORMAL CONDITIONS (CONT'D)

	A	B	C	D	E	F	G	H
.37 Leakage around shaft	X	X	X	X	X		X	X
(Signature) (Date)								
.38 Inoperative P-250 pump	X	X	X	X	X	X	X	X
(Signature) (Date)								

Completion of .3 area comprises 25% of watchstation.

317.4 EMERGENCIES

For the emergency conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. What other emergencies or malfunctions may occur if immediate action is not taken?
F. How does this emergency affect other operations/equipment/watchstations?
G. Perform or simulate the immediate action for this emergency condition.

	A	B	C	D	E	F	G
.41 Fire	X	X	X	X	X	X	X
(Signature) (Date)							
.42 Inoperative hand bilge pump	X	X	X	X	X		X
(Signature) (Date)							
.43 Flooding of a compartment	X	X	X	X	X		X
(Signature) (Date)							
.44 Holed hull	X	X	X	X	X	X	X
(Signature) (Date)							
.45 Man overboard	X	X	X	X	X	X	X

TCHSTATION - LARC-V ENGINEER

timated completion time: 2 weeks

fore starting your assigned tasks, complete the following items:

PQS Qualification: NAVEDTRA 43248A-Q17

SKS

r the tasks listed below:

What are the steps of this procedure?
What are the reasons for each step?
What safety precautions must be observed?
What parameters must be monitored?
Perform this task.

	A	B	C	D	E
eck engine oil and water levels	X	X			X
ignature) (Date)					
eck all transmission oil levels	X	X			X
ignature) (Date)					
eck hydraulic oil levels	X	X			X
ignature) (Date)					
eck output housing oil levels	X	X			X
ignature) (Date)					
eck fuel tank levels	X	X			X
ignature) (Date)					
eck battery condition	X	X	X		X
ignature) (Date)					
erate hand bilge pumps	X	X			X

318.1 TASKS (CONT'D)

		A	B	C
.18	Inspect bilges	X	X	

(Signature) (Date)

		A	B	C
.19	Inspect steering linkage and rudder	X	X	

(Signature) (Date)

		A	B	C
.110	Explain gauge readings	X	X	

(Signature) (Date)

		A	B	C
.111	Start and warm up engine	X	X	X

(Signature) (Date)

		A	B	C
.112	Connect and operate P-250 pump	X	X	X

(Signature) (Date)

		A	B	C
.113	Lube LARC-V upon completion of operations	X	X	

(Signature) (Date)

Completion of .1 area comprises 40% of watchstation.

318.2 INFREQUENT TASKS

For the infrequent tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What safety precautions must be observed?
E. What conditions require this infrequent task?
F. Perform or simulate this task.

.21 Connect slave cable

(Signature) (Date)

Completion of .2 area comprises 5% of watchstation.

C. What are the probable causes?
D. What operating limitations are imposed?
E. What emergencies or malfunctions may occur if immediate action is not taken?
F. What followup action is required?
G. Perform or simulate the corrective/immediate action for this abnormal condition.

	A	B	C	D	E	F	G
.31 One or more drive shafts disconnected	X	X		X	X	X	X
(Signature) (Date)							
.32 Seawater in batteries	X	X	X	X	X	X	X
(Signature) (Date)							
.33 Transmission fails to shift/slips	X	X	X	X	X	X	X
(Signature) (Date)							
.34 Loss of brakes	X	X	X	X	X	X	X
(Signature) (Date)							
.35 Uncontrollable bilge pumps	X	X	X	X	X	X	X
(Signature) (Date)							
.36 Bent propeller shaft	X	X		X	X	X	X
(Signature) (Date)							
.37 Alternator output high/low	X	X	X	X	X	X	X
(Signature) (Date)							

Completion of .3 area comprises 25% of watchstation.

.4 EMERGENCIES

For the emergency conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?

318.4 EMERGENCIES (CONT'D)

D. What operating limitations are imposed?
E. What other emergencies or malfunctions may occur if immediate action is not taken?
F. Perform or simulate the immediate action for this emergency condition.

.41 Loss of engine oil pressure

(Signature) (Date)

.42 Engine overheating

(Signature) (Date)

.43 Loss of exhaust cooling water

(Signature) (Date)

.44 Runaway engine

(Signature) (Date)

.45 Bilge flooded

(Signature) (Date)

.46 Loss of steering control

(Signature) (Date)

.47 Loss of engine power

(Signature) (Date)

.48 Loss of hydraulic fluid

(Signature) (Date)

.49 Loss of bilge pumps

Before starting your assigned tasks, complete the following items:

PQS Qualification: NAVEDTRA 43248A-Q18

19.1 TASKS

For the tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What communications must be established?
E. What safety precautions must be observed?
F. What parameters must be monitored?
G. Perform this task.

		A	B	C	D	E	F	G
.11	Check out vehicle from dispatcher	X	X					X
	(Signature) (Date)							
.12	Start and warm up engine	X	X			X	X	X
	(Signature) (Date)							
.13	Connect LARC-V for towing	X	X	X	X	X	X	X
	(Signature) (Date)							
.14	Take a strain on a towing line	X	X	X		X	X	X
	(Signature) (Date)							
.15	Make approach alongside waterborne craft or pier	X	X	X	X	X	X	X
	(Signature) (Date)							
.16	Enter well deck of LPD, LSD, LHA, or LST	X	X	X	X	X	X	X
	(Signature) (Date)							
.17	Secure LARC-V in well deck of LPD, LSD, LHA, or LST	X	X	X		X		X

319.1 TASKS (CONT'D)

	A	B	C	D	E	F	G
.18 Come alongside a broached boat	X	X	X		X	X	X
(Signature) (Date)							
.19 Come alongside a swamped boat	X	X	X		X	X	X
(Signature) (Date)							
.110 Come alongside a disabled boat	X	X	X		X	X	X
(Signature) (Date)							
.111 Come alongside a capsized boat	X	X	X		X	X	X
(Signature) (Date)							
.112 Come alongside a boat with ramp failure	X	X	X		X	X	X
(Signature) (Date)							
.113 Approach disabled vehicle in surf zone	X	X	X		X	X	X
(Signature) (Date)							
.114 Operate the LARC-V under inland rules of the road	X	X	X	X	X	X	X
(Signature) (Date)							
.115 Operate the LARC-V under international rules of the road	X	X	X	X	X	X	X
(Signature) (Date)							

Completion of .1 area comprises 45% of watchstation.

319.2 INFREQUENT TASKS

For the infrequent tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What communications must be established?

319.2 INFREQUENT TASKS (CONT'D)

		A	B	C	D	E
.21	Cold weather start	X	X		X	X
	(Signature) (Date)					
.22	Drive up an LST bow ramp	X	X	X	X	X
	(Signature) (Date)					
.23	Tow a LARC-V on land for more than a mile	X	X		X	X
	(Signature) (Date)					
.24	Tow a LARC-V through a surf zone	X	X		X	X
	(Signature) (Date)					

Completion of .2 area comprises 15% of watchstation.

319.3 ABNORMAL CONDITIONS - None to be discussed.

319.4 EMERGENCIES

For the emergency conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. What other emergencies or malfunctions may occur if immediate action is not taken?
F. How does this emergency affect other operations/equipment/watchstations?
G. Perform or simulate the immediate action for this emergency condition.

		A	B	C	D	E	F	G
.41	Low engine oil pressure	X	X	X	X	X	X	X
	(Signature) (Date)							
.42	High engine water temperature	X	X	X	X	X	X	X
	(Signature) (Date)							

319.4 EMERGENCIES (CONT'D)

		A	B	C	D	E	F	G
.44	Loss of power	X	X	X	X	X	X	X
	(Signature) (Date)							
.45	Low tire pressure	X	X	X	X	X	X	X
	(Signature) (Date)							
.46	Unusual odors or fumes	X	X	X	X	X		X
	(Signature) (Date)							
.47	Excessive noise and/or vibration	X	X	X	X	X	X	X
	(Signature) (Date)							
.48	Man overboard	X	X	X	X	X	X	X
	(Signature) (Date)							

Completion of .4 area comprises 40% of watchstation.

319.5 WATCHES - None.

Before starting your assigned tasks, complete the following items:

School: Landing Craft and Surf Salvage Course (H-00-5318)

PQS Qualifications: NAVEDTRA 43248A-Q9 and NAVEDTRA 43248A-Q19

320.1 TASKS

For the tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What communications must be established?
E. What safety precautions must be observed?
F. Perform this task.

		A	B	C	D	E	F
.11	Supervise the traffic controlman	X	X	X	X	X	X

(Signature) (Date)

.12	Supervise the connection of a tow to a disabled craft for seaward salvage	X	X	X	X	X	X

(Signature) (Date)

.13	Supervise the connection of a towline to a disabled vehicle	X	X	X		X	X

(Signature) (Date)

.14	Set up LST and causeway markers using a magnetic compass	X	X	X			X

(Signature) (Date)

.15	Supervise the connection of ramp raising gear	X	X	X		X	X

(Signature) (Date)

Completion of .1 area comprises 40% of watchstation.

320.2 INFREQUENT TASKS

For the infrequent tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What communications must be established?
E. What safety precautions must be observed?
F. What conditions require this infrequent task?
G. Perform or simulate this task.

.21 Participate in a seaward salvage

(Signature) (Date)

.22 Participate in the salvage of a stranded boat

(Signature) (Date)

.23 Participate in the salvage of a broached boat

(Signature) (Date)

.24 Participate in a ramp raising

(Signature) (Date)

Completion of .2 area comprises 25% of watchstation.

320.3 ABNORMAL CONDITIONS

For the abnormal conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What emergencies or malfunctions may occur if immediat
not taken?
E. How does this condition affect other operations/equipm
watchstations?
F. Perform or simulate the corrective/immediate action fo
abnormal condition.

.31 Boats beached too close together

(Signature) (Date)

3 ABNORMAL CONDITIONS (CONT'D)

33 Parted tow or antibroaching line

(Signature) (Date)

Completion of .3 area comprises 10% of watchstation.

4 EMERGENCIES

For the emergency conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. How does this emergency affect other operations/equipment/ watchstations?
F. Perform or simulate the immediate action for this emergency condition.

	A	B	C	D	E	F
41 Personnel falling overboard	X	X	X		X	X

(Signature) (Date)

	A	B	C	D	E	F
42 Holed landing craft	X	X	X	X	X	X

(Signature) (Date)

	A	B	C	D	E	F
43 Capsized landing craft	X	X	X	X	X	X

(Signature) (Date)

	A	B	C	D	E	F
44 Fire on landing craft	X	X	X	X	X	X

(Signature) (Date)

	A	B	C	D	E	F
45 Submerged vehicle	X	X		X	X	X

(Signature) (Date)

	A	B	C	D	E	F
46 Submerged vehicle with personnel	X	X		X	X	X

(Signature) (Date)

Before starting your assigned tasks, complete the following items:

PQS Qualifications: NAVEDTRA 43248A-Q20

Fundamental: 114 (5% of watchstation)

System: 222 (5% of watchstation)

21.1 TASKS

For the tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What communications must be established?
E. What parameters must be monitored?
F. What safety precautions must be observed?
G. Perform this task.

		A	B	C	D	E	F	G
.11	Supervise flank petty officer	X		X	X		X	X
	(Signature) (Date)							
.12	Direct use of D-8 in salvage operation	X		X	X	X	X	X
	(Signature) (Date)							
.13	Direct use of LARC-V in salvage operation	X		X	X	X	X	X
	(Signature) (Date)							
.14	Supervise and direct all salvage operations on a flank of a beach	X	X	X	X	X	X	X
	(Signature) (Date)							
.15	Supervise connection and use of P-250 pump	X				X	X	X
	(Signature) (Date)							
.16	Supervise and direct a seaward salvage	X	X	X	X	X	X	X

321.1 TASKS (CONT'D)

A B C D

.17 Supervise and direct the salvage of a stranded boat X X X X

(Signature) (Date)

.18 Supervise and direct the salvage of a broached boat X X X X

(Signature) (Date)

.19 Supervise and direct a ramp raising operation X X X X

(Signature) (Date)

.110 Supervise removal of a disabled vehicle from a landing craft X X X

(Signature) (Date)

.111 Act as safety observer X X X X

(Signature) (Date)

Completion of .1 area comprises 35% of watchstation.

321.2 INFREQUENT TASKS

For the infrequent tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What safety precautions must be observed?
E. Perform or simulate this task.

.21 Supervise and direct salvage of D-8 in surf zone

(Signature) (Date)

.22 Patch holed boats in surf zone

321.3 ABNORMAL CONDITIONS

For the abnormal conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. What emergencies or malfunctions may occur if immediate action is not taken?
F. How does this condition affect other operations/equipment/watchstations?
G. What followup action is required?
H. Perform or simulate the corrective/immediate action for this abnormal condition.

.31 LARC too close to beached boats

(Signature) (Date)

.32 Broached boat

(Signature) (Date)

.33 Inoperative ramp on an LCVP LCM

(Signature) (Date)

.34 Free-swinging bow on a landing craft

(Signature) (Date)

.35 Disabled vehicle in surf

(Signature) (Date)

.36 Disabled vehicle in a landing craft

(Signature) (Date)

Completion of .3 area comprises 20% of watchstation.

321.4 EMERGENCIES

For the emergency conditions listed below:

321.4 EMERGENCIES (CONT'D)

E. What other emergencies or malfunctions may occur if immedi
action is not taken?

F. How does this emergency affect other operations/equipment/
watchstations?

G. Perform or simulate the immediate action for this emergenc
condition.

.41 Landing craft collision in the surf zone

(Signature) (Date)

.42 Stranded boat

(Signature) (Date)

.43 Disabled boat

(Signature) (Date)

.44 Capsized boat

(Signature) (Date)

.45 Holed boat

(Signature) (Date)

.46 Swamped boat

(Signature) (Date)

.47 Personnel falling down in surf zone

(Signature) (Date)

.48 Fire on boat

(Signature) (Date)

Completion of .4 area comprises 20% of watchstation.

321.5 WATCHES - None

ore starting your assigned tasks, complete the following items:

PQS Qualification: NAVEDTRA 43248A-Q21

SKS

r the tasks listed below:

What are the steps of this procedure?
What are the reasons for each step?
What control/coordination is required?
What communications must be established?
What parameters must be monitored?
What safety precautions must be observed?
Perform this task.

	A	B	C	D	E	F	G
cide what salvage technique and beachmaster uipment will be used for a beach salvage sk	X	X			X	X	X
ignature) (Date)							
pervise salvage petty officer	X	X	X			X	X
ignature) (Date)							
pervise and direct all salvage operations of tire beach	X	X	X	X	X	X	X
ignature) (Date)							
ke a SUROB report	X	X			X	X	X
ignature) (Date)							
sign team personnel	X	X	X		X		X
ignature) (Date)							
intain team training records	X	X					X
ignature) (Date)							

322.1 TASKS (CONT'D)

		A	B	C	D	E	F	G
.17	Supervise griping or shoring beachmaster equipment while embarked aboard ship	X	X	X		X	X	X

(Signature) (Date)

Completion of .1 area comprises 85% of watchstation.

322.2 INFREQUENT TASKS

For the infrequent tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What communications must be established?
E. What safety precautions must be observed?
F. What conditions require this infrequent task?
G. Perform or simulate this task.

.21 Assume duties of salvage petty officer

(Signature) (Date)

Completion of .2 area comprises 15% of watchstation.

322.3 ABNORMAL CONDITIONS - None to be discussed.

322.4 EMERGENCIES - None to be discussed.

322.5 WATCHES - None.

WATCHSTATION - BEACH PARTY TEAM COMMANDER/ASSISTANT COMMANDER

Estimated completion time: 6 weeks

Before starting your assigned tasks, complete the following items:

Schools: Amphibious Indoctrination, Boat Group Commander Course (H-00-5210)

PQS Qualification: NAVEDTRA 43248A-Q22

System: 226 (5% of watchstation)

TASKS

For the tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What communications must be established?
E. What parameters must be monitored?
F. Perform this task.

	A	B	C	D	E	F
Control and direct beach and retraction of landing craft	X	X	X	X	X	X
(Signature) (Date)						
Take a SUROB and send report to primary control ship (PCS)	X	X		X		X
(Signature) (Date)						
Control and supervise all salvage operations	X	X	X	X	X	X
(Signature) (Date)						
Direct radio and visual communications with forces afloat	X	X	X	X	X	X
(Signature) (Date)						
Supervise evacuation of casualties and prisoners	X	X	X	X	X	X
(Date)						

(Signature) (Date)

.17 Supervise layout and construction of team bivouac X X

(Signature) (Date)

.18 Establish liaison with marine shore party commander X X

(Signature) (Date)

.19 Direct team in passive defense of beach X X

(Signature) (Date)

.110 Maintain beach party team administrative records X X

(Signature) (Date)

.111 Establish and maintain operational control of causeway operations X X

(Signature) (Date)

.112 Establish and maintain operational control of amphibious assault bulk fuel system X X

(Signature) (Date)

.113 Establish beachmaster command post X X

(Signature) (Date)

.114 Control boat group tactics X X

(Signature) (Date)

.115 Locate beach center using a magnetic compass with grid maps X X

(Signature) (Date)

Supervise effective countermeasures of nuclear, biological, chemical (NBC) attack	X	X	X	X	X	X

____
(Signature) (Date)

Inspect beachmaster equipment, ensuring it is properly secured for sea, using grips or shoring when embarked aboard ship	X	X	X			X

____
(Signature) (Date)

Organize/supervise mount-out of equipment and material for deployment/operation	X	X	X			X

____
(Signature) (Date)

Completion of .1 area comprises 50% of watchstation.

INFREQUENT TASKS

For the infrequent tasks listed below:

A. What are the steps of this procedure?
B. What are the reasons for each step?
C. What control/coordination is required?
D. What communications must be established?
E. What safety precautions must be observed?
F. Perform or simulate this task.

	A	B	C	D	E	F
Direct/control salvage of stranded/broached boat using D-8/LARC-V	X	X	X		X	X

____
(Signature) (Date)

Direct/control salvage of D-8 in surf zone	X	X	X		X	X

____
(Signature) (Date)

Turn away a boat wave	X	X	X	X	X	X

____
(Signature) (Date)

Supervise raising a ramp on LCVP or LCM	X	X	X	X	X	X

____

323.2 INFREQUENT TASKS (CONT'D)

A	B	C	D
X	X		

.25 Map reading and land navigation

(Signature) (Date)

Completion of .2 area comprises 20% of watchstation.

323.3 ABNORMAL CONDITIONS

For the abnormal conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. What emergencies or malfunctions may occur if immediate ac
not taken?
F. How does this condition affect other operations/equipment/
watchstations?
G. What followup action is required?
H. Perform or simulate the corrective/immediate action for th
abnormal condition.

.31 Landing craft beached too close together

(Signature) (Date)

.32 Failure of a boat wave to turn away when waved off

(Signature) (Date)

.33 Loss of radio communications

(Signature) (Date)

.34 Rapid change in surf conditions

(Signature) (Date)

.35 Free-swinging bow on a beached boat

(Signature) (Date)

.36 Failure of salvage boat to acknowledge visual salvage request

ABNORMAL CONDITIONS (CONT'D)

7 Failure to establish bivouac correctly

(Signature) (Date)

Completion of .3 area comprises 20% of watchstation.

4 EMERGENCIES

For the emergency conditions listed below:

A. What indications and alarms are received?
B. What immediate action is required?
C. What are the probable causes?
D. What operating limitations are imposed?
E. What other emergencies or malfunctions may occur if immediate action is not taken?
F. How does this emergency affect other operations/equipment/watchstations?
G. Perform or simulate the immediate action for this emergency condition.

41 Landing craft collision in surf zone

(Signature) (Date)

42 Capsized boat

(Signature) (Date)

43 Disabled boat in high surf

(Signature) (Date)

44 Accidental off-load of personnel/vehicles into a hole

(Signature) (Date)

.45 Uncharted deep water

(Signature) (Date)

.46 Holed boat

Personnel Qualification Standard
Information Report and Suggestion Sheet
PQS DEVGRU AUTOVON 957-5367

l______________________________DATE______

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ling Address______________________________

______________________________AUTOVON #______

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arks/Recommendations (Use additional sheets if necessary)

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ggestions for improving this Qual Standard

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